PATENT & TRADEMARK OFFICE
FEB 11 2004
JC102

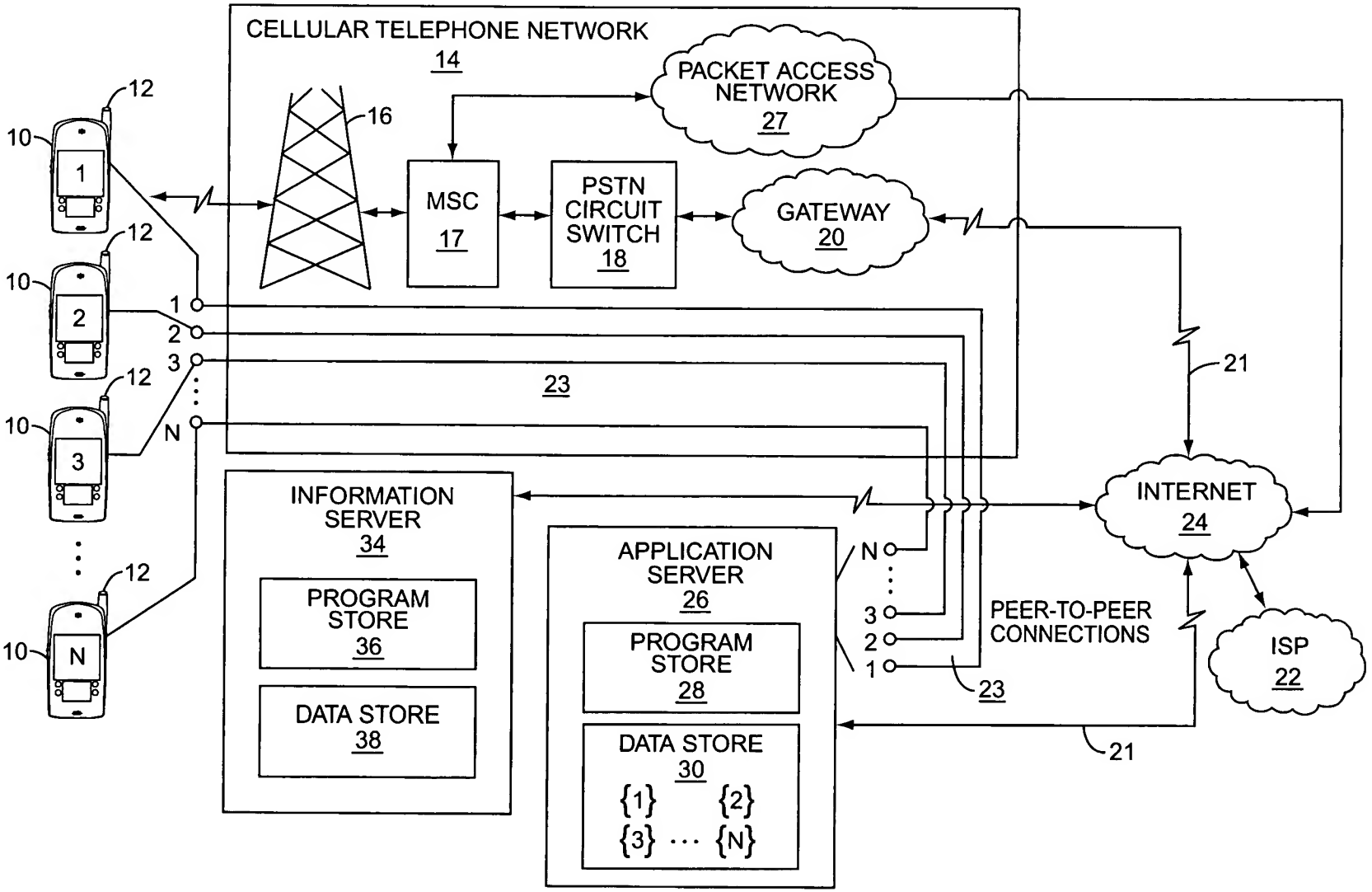


FIG 1

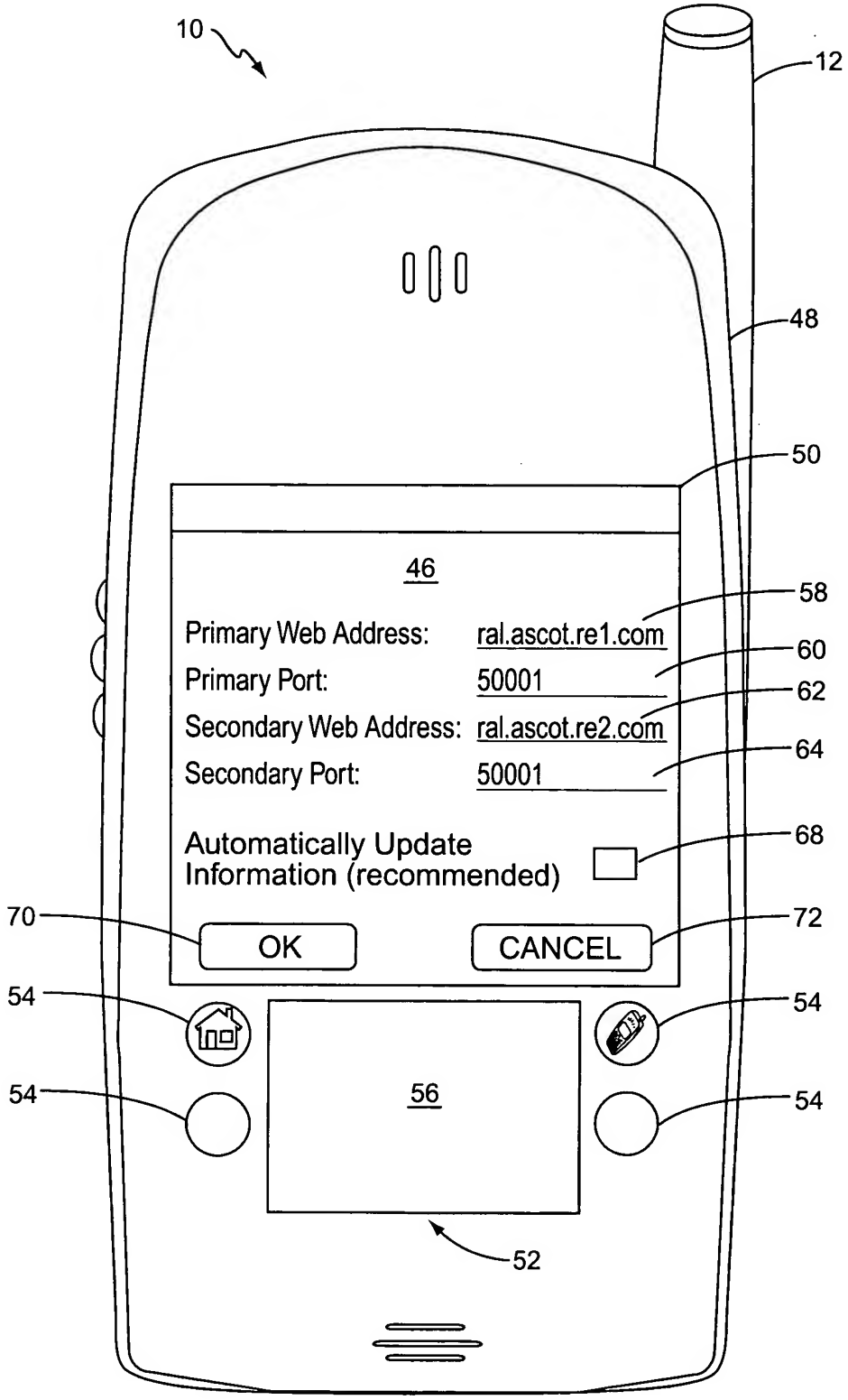

10
12
48
50
46
58
Primary Web Address:
ral.ascot.re1.com
60
Primary Port:
50001
62
Secondary Web Address:
ral.ascot.re2.com
64
Secondary Port:
50001
68
Automatically Update
Information (recommended)
70
OK
CANCEL
72
54
54
54
54
56
52

FIG 2

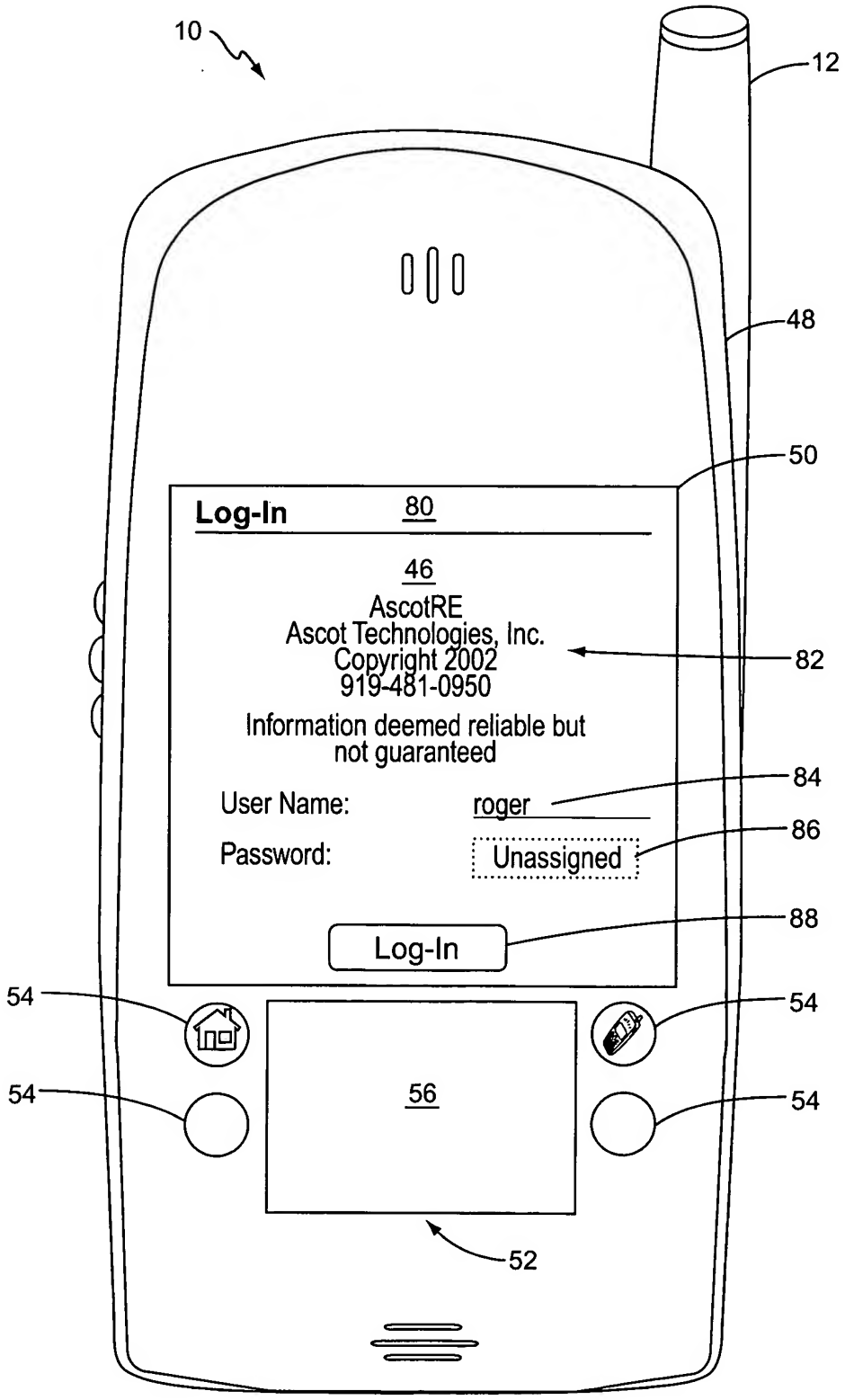

10
12
48
50
Log-In
80
46
AscotRE
Ascot Technologies, Inc.
Copyright 2002
919-481-0950
82
Information deemed reliable but
not guaranteed
User Name:
roger
84
Password:
Unassigned
86
Log-In
88
54
54
54
54
56
52

FIG 3

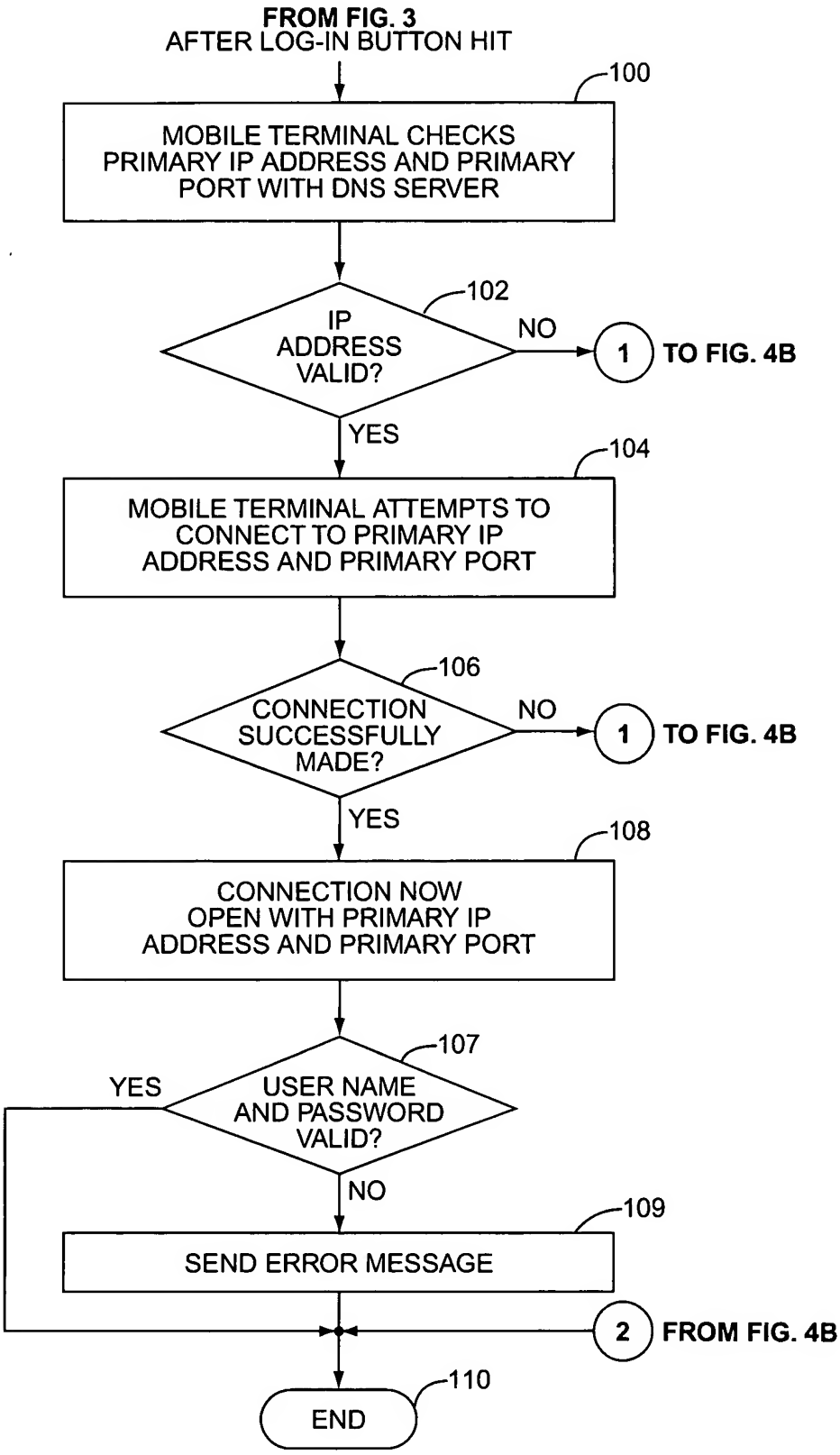

FROM FIG. 3
AFTER LOG-IN BUTTON HIT
100
MOBILE TERMINAL CHECKS PRIMARY IP ADDRESS AND PRIMARY PORT WITH DNS SERVER
102
IP ADDRESS VALID?
NO
1
TO FIG. 4B
YES
104
MOBILE TERMINAL ATTEMPTS TO CONNECT TO PRIMARY IP ADDRESS AND PRIMARY PORT
106
CONNECTION SUCCESSFULLY MADE?
NO
1
TO FIG. 4B
YES
108
CONNECTION NOW OPEN WITH PRIMARY IP ADDRESS AND PRIMARY PORT
107
YES
USER NAME AND PASSWORD VALID?
NO
109
SEND ERROR MESSAGE
2
FROM FIG. 4B
110
END

FIG. 4A

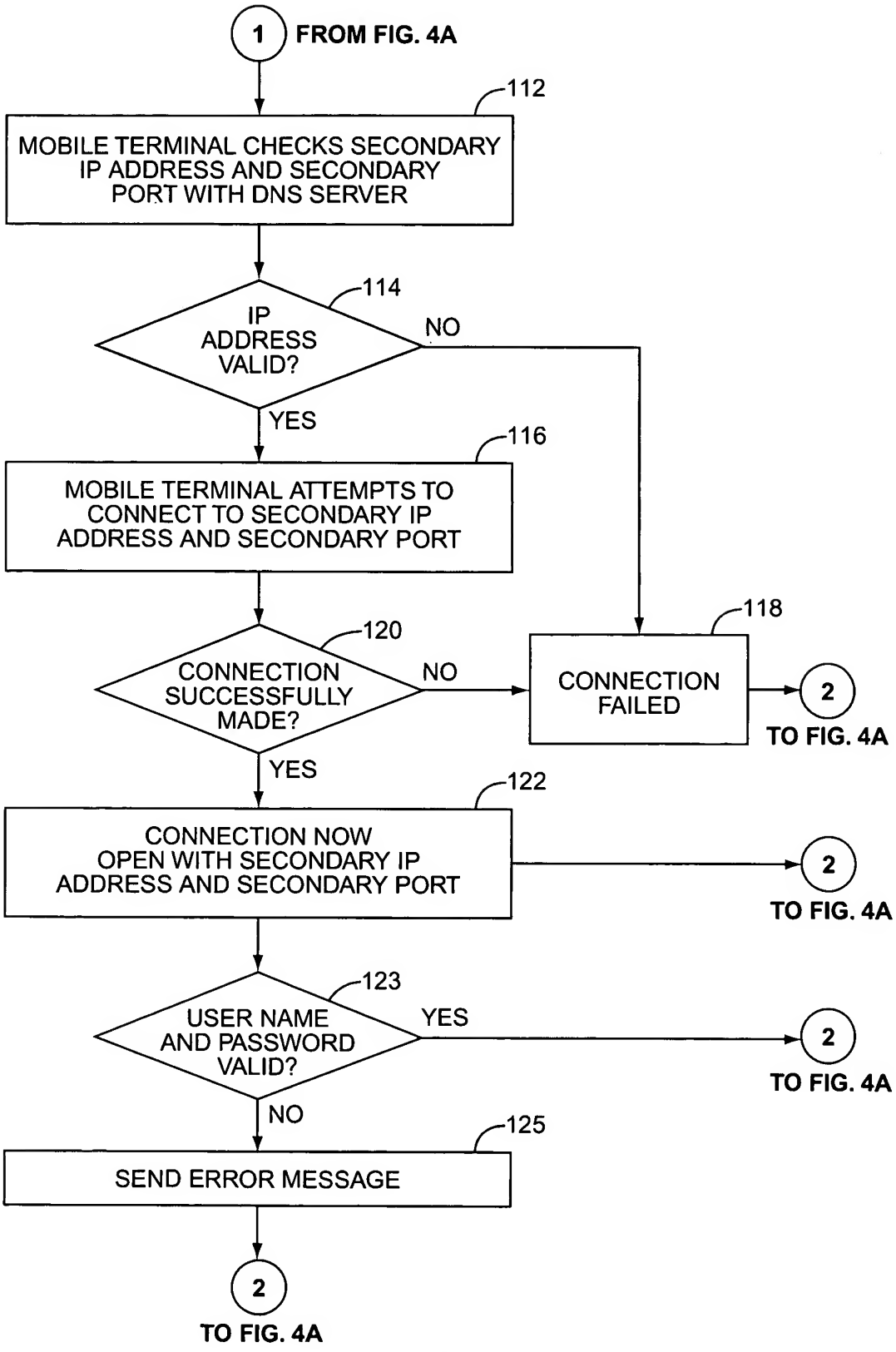

1
FROM FIG. 4A
112
MOBILE TERMINAL CHECKS SECONDARY IP ADDRESS AND SECONDARY PORT WITH DNS SERVER
114
IP ADDRESS VALID?
NO
YES
116
MOBILE TERMINAL ATTEMPTS TO CONNECT TO SECONDARY IP ADDRESS AND SECONDARY PORT
118
120
CONNECTION SUCCESSFULLY MADE?
NO
CONNECTION FAILED
2
TO FIG. 4A
YES
122
CONNECTION NOW OPEN WITH SECONDARY IP ADDRESS AND SECONDARY PORT
2
TO FIG. 4A
123
USER NAME AND PASSWORD VALID?
YES
2
TO FIG. 4A
NO
125
SEND ERROR MESSAGE
2
TO FIG. 4A

FIG. 4B

APPLICATION SERVER MAIN PROGRAM
STATE DIAGRAM

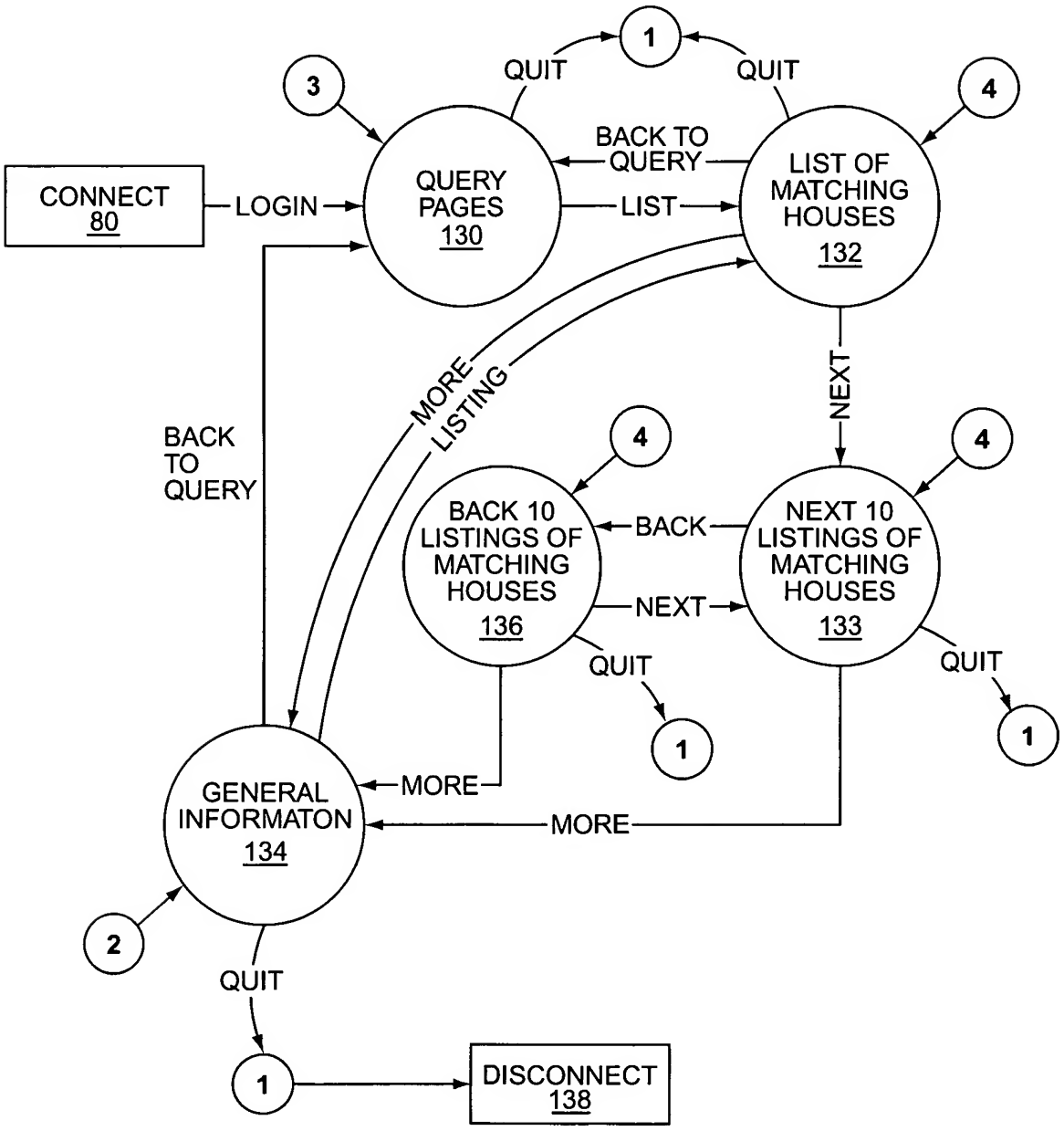


FIG 5A

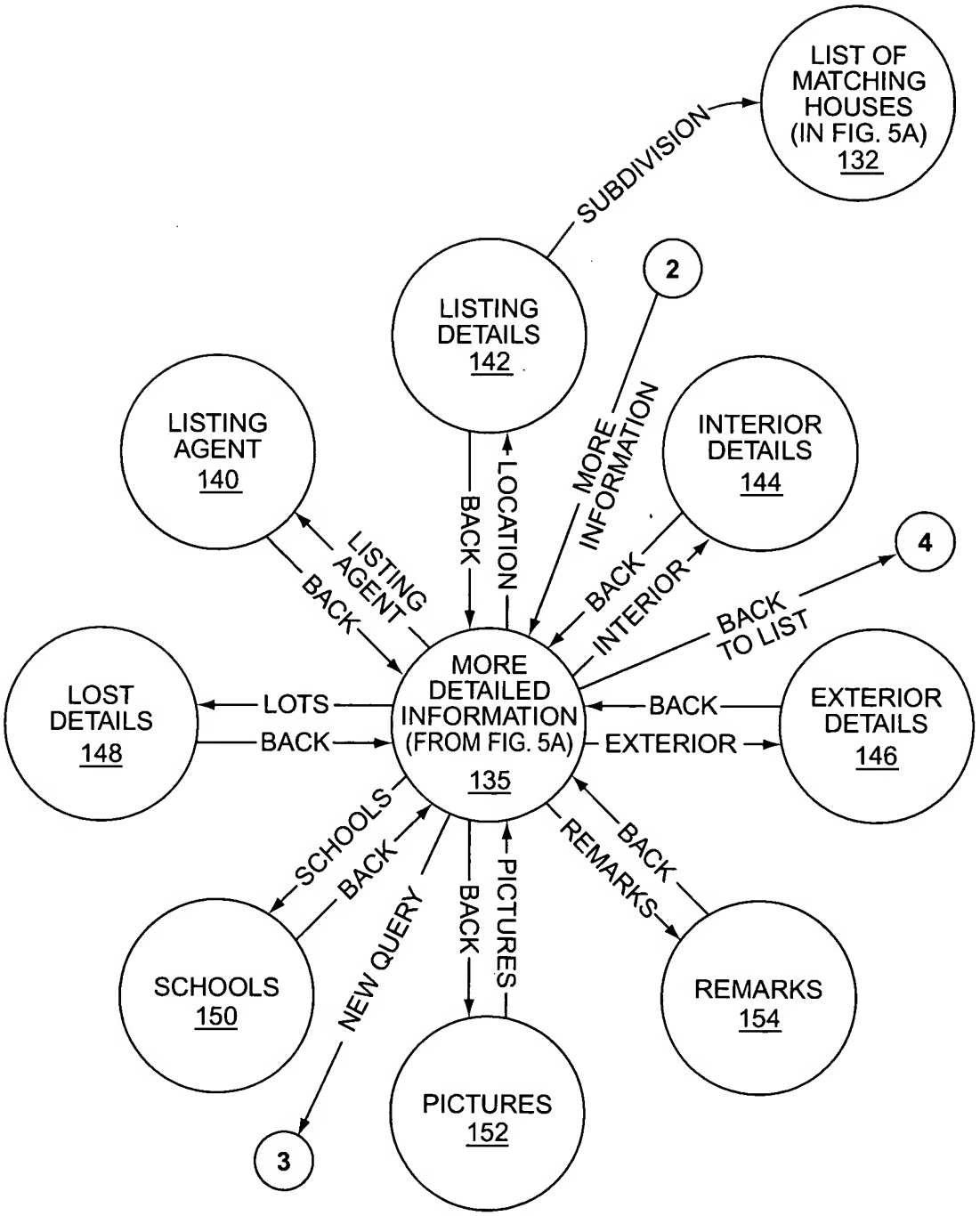
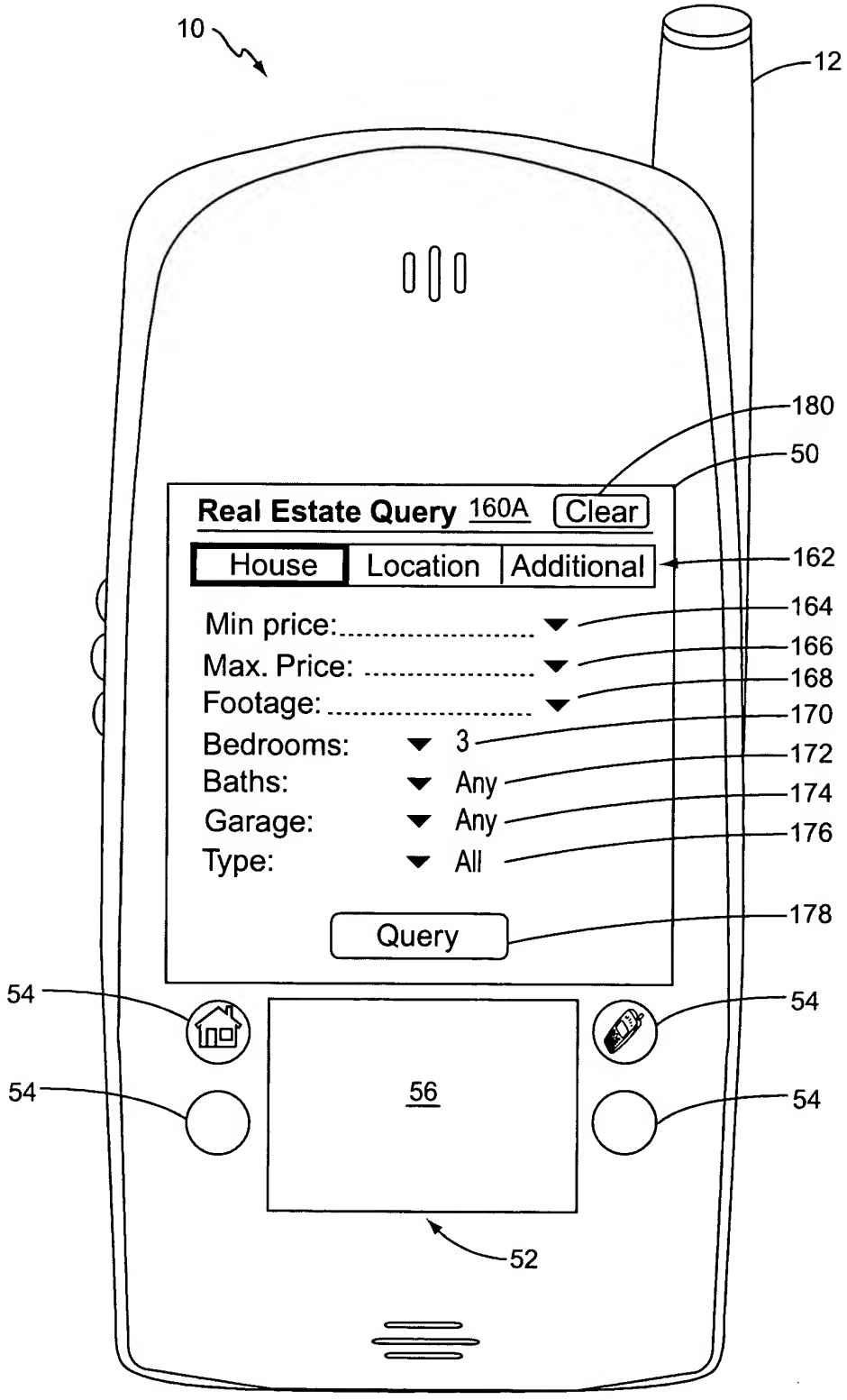
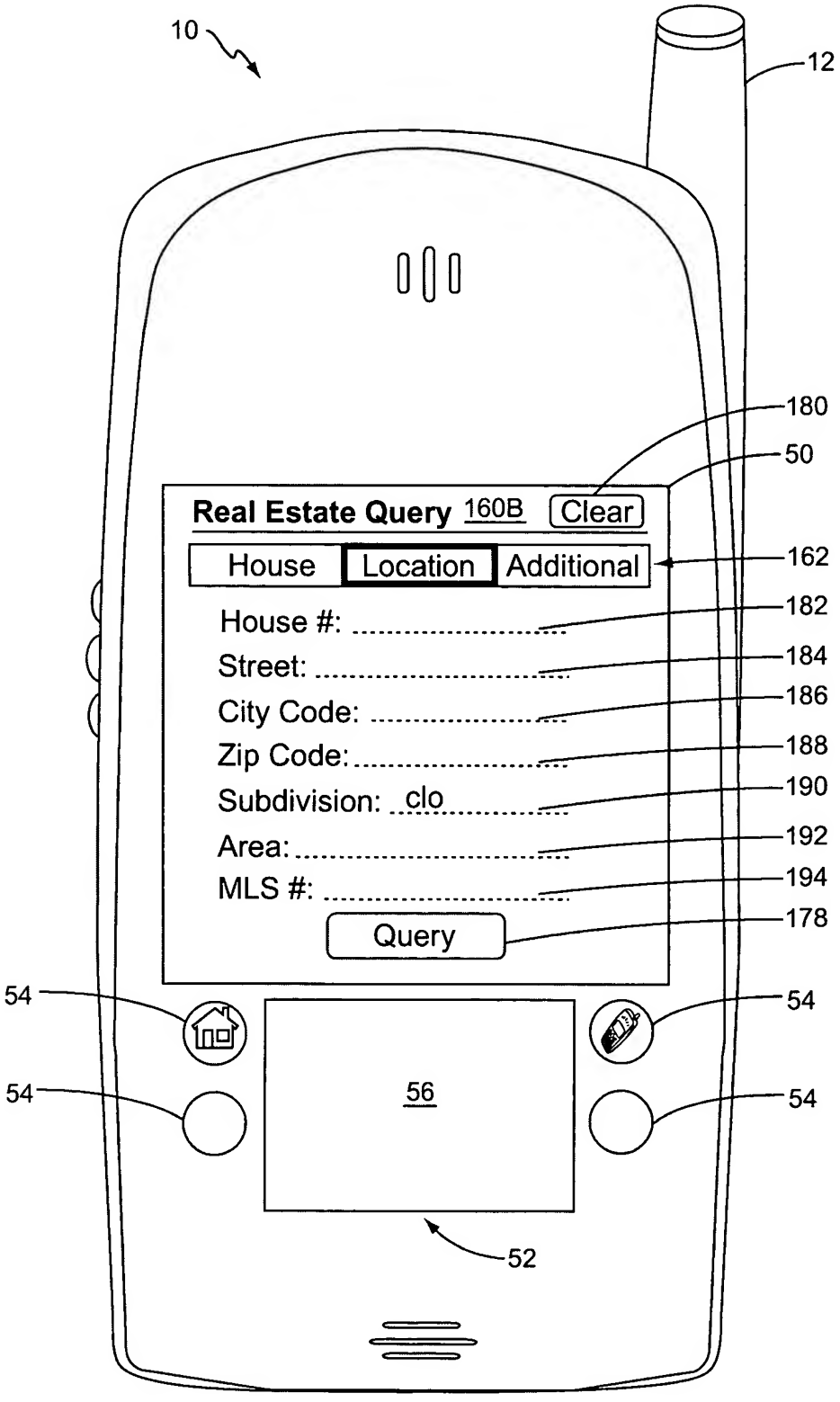

LIST OF MATCHING HOUSES (IN FIG. 5A) 132
SUBDIVISION
LISTING DETAILS 142
2
LISTING AGENT 140
INTERIOR DETAILS 144
BACK
LOCATION
MORE INFORMATION
LISTING AGENT
BACK
BACK
INTERIOR
4
BACK TO LIST
LOST DETAILS 148
LOTS
BACK
MORE DETAILED INFORMATION (FROM FIG. 5A) 135
BACK
EXTERIOR
EXTERIOR DETAILS 146
SCHOOLS
BACK
BACK
REMARKS
SCHOOLS 150
NEW QUERY
BACK
PICTURES
REMARKS 154
3
PICTURES 152

FIG 5B



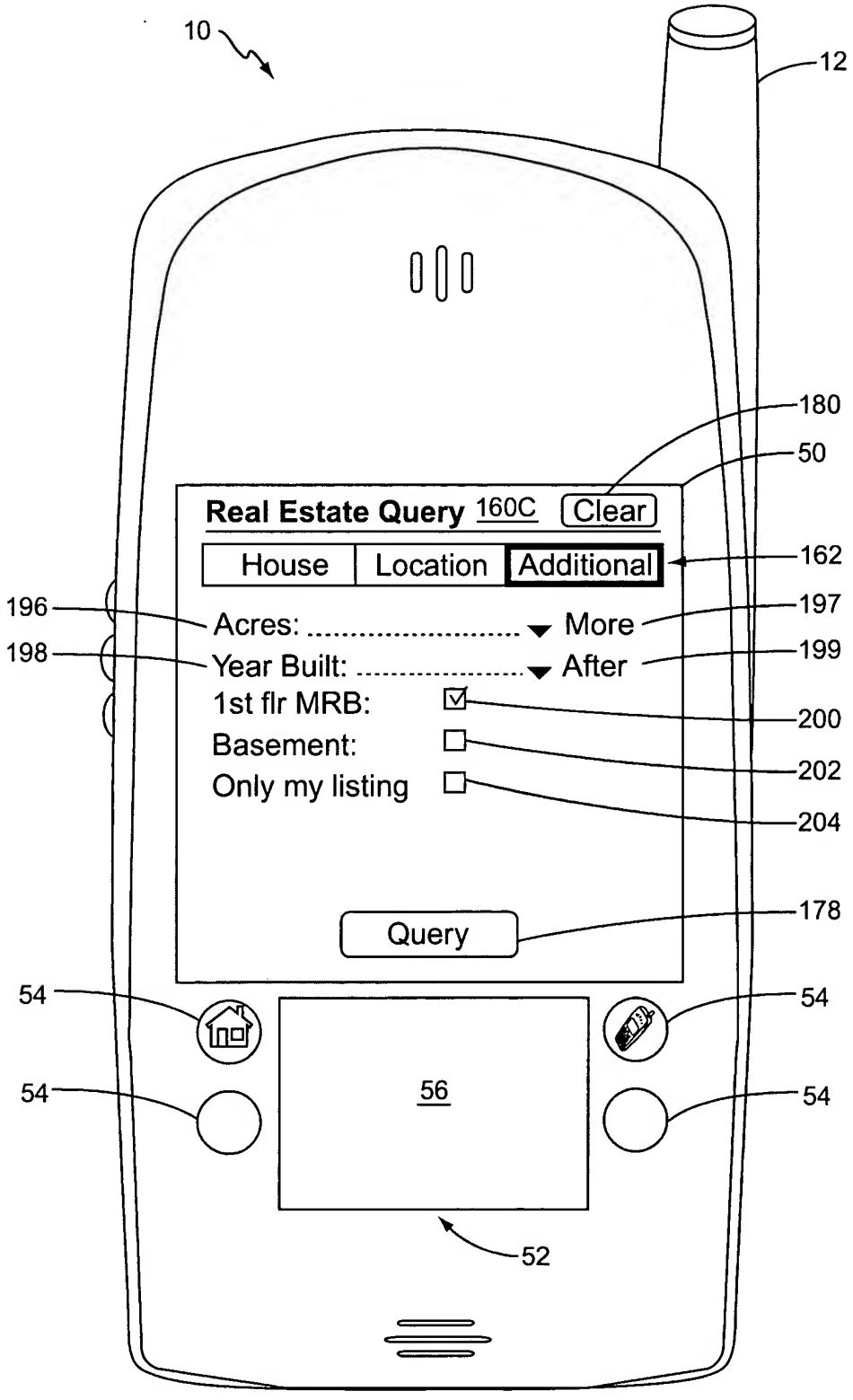
"Query Pages" State

FIG 6A



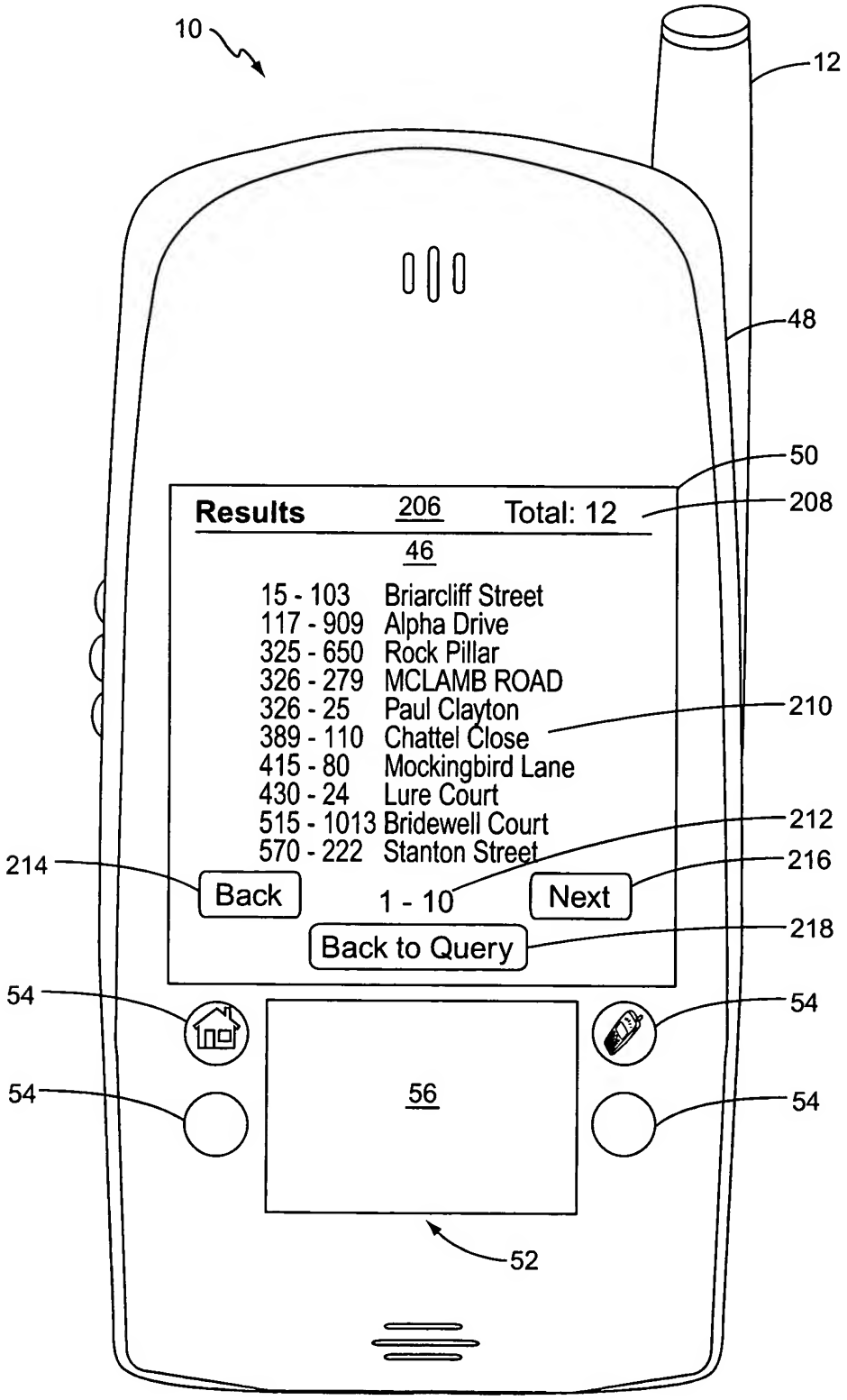
"Query Pages" State

FIG 6B



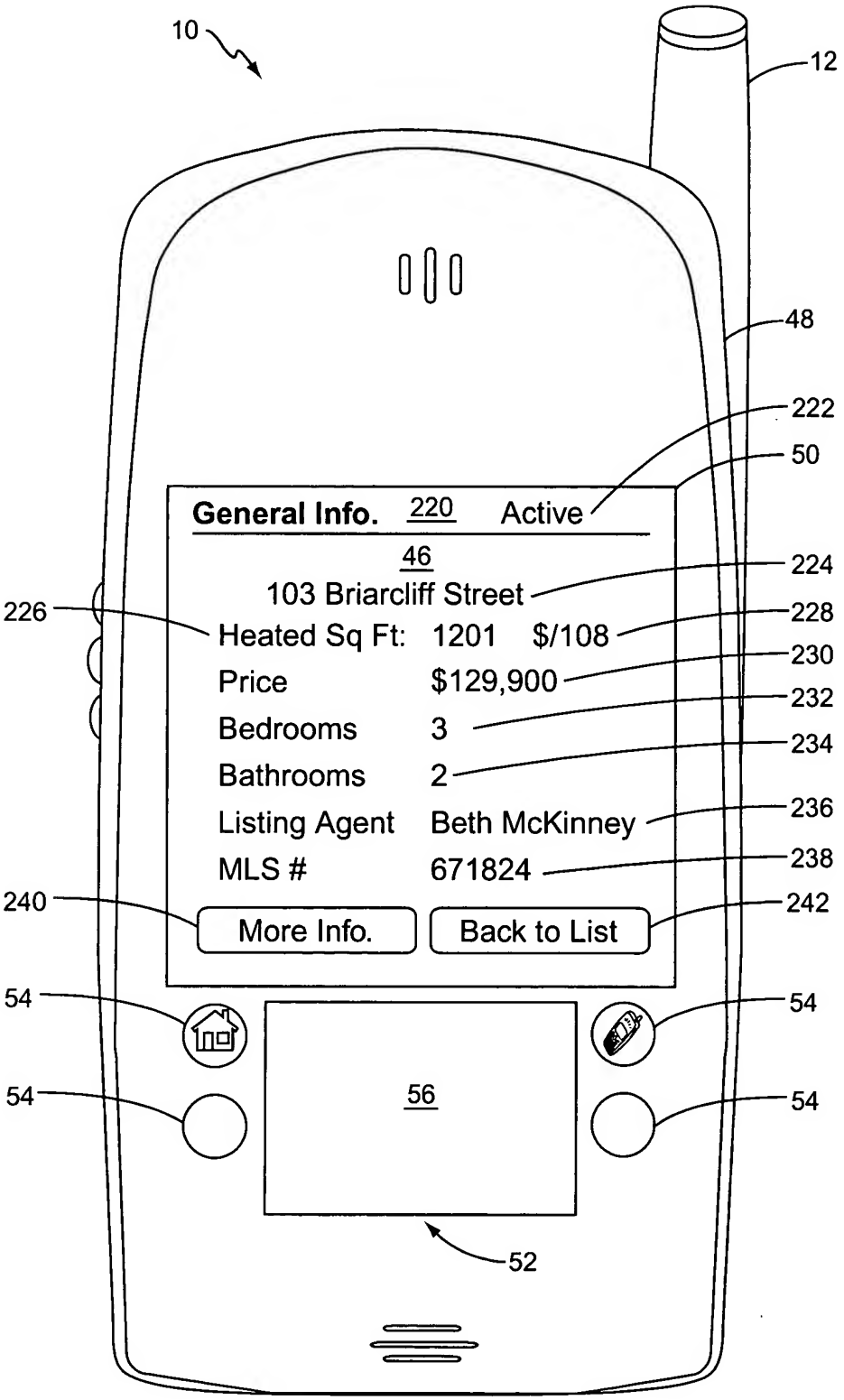
"Query Pages" State

FIG 6C



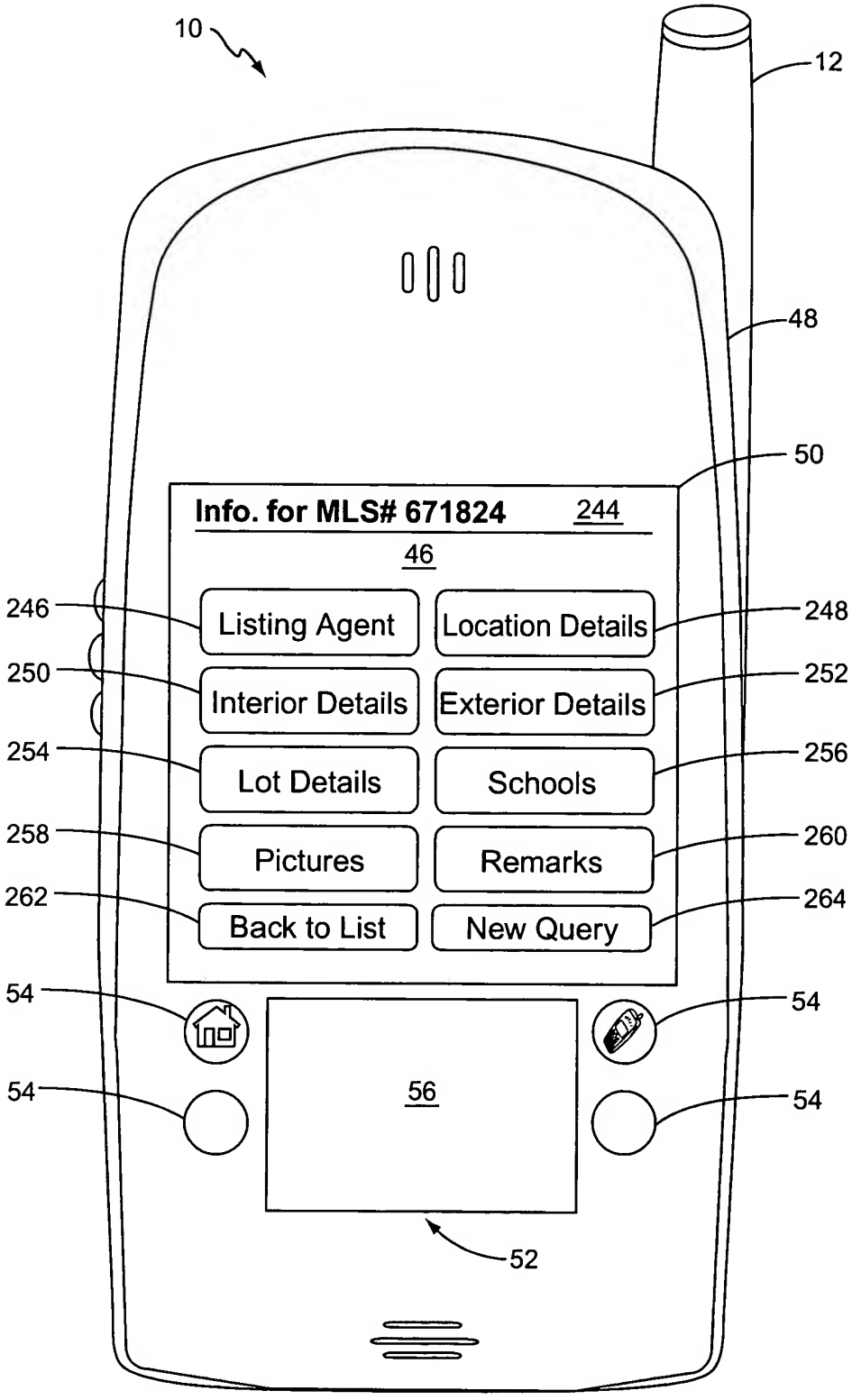
"List of Matching Houses" State

FIG 7



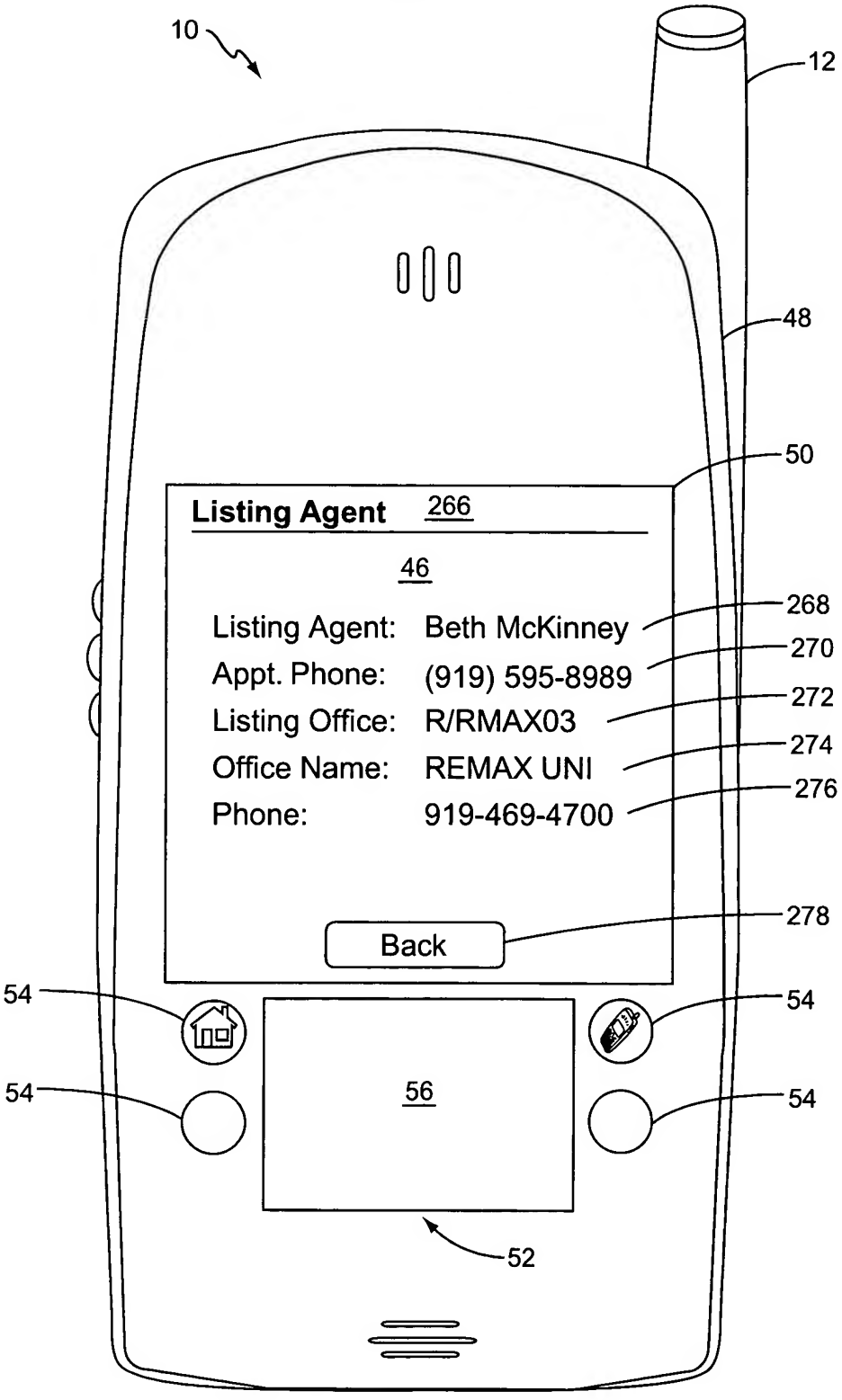
"General Information" State

FIG 8



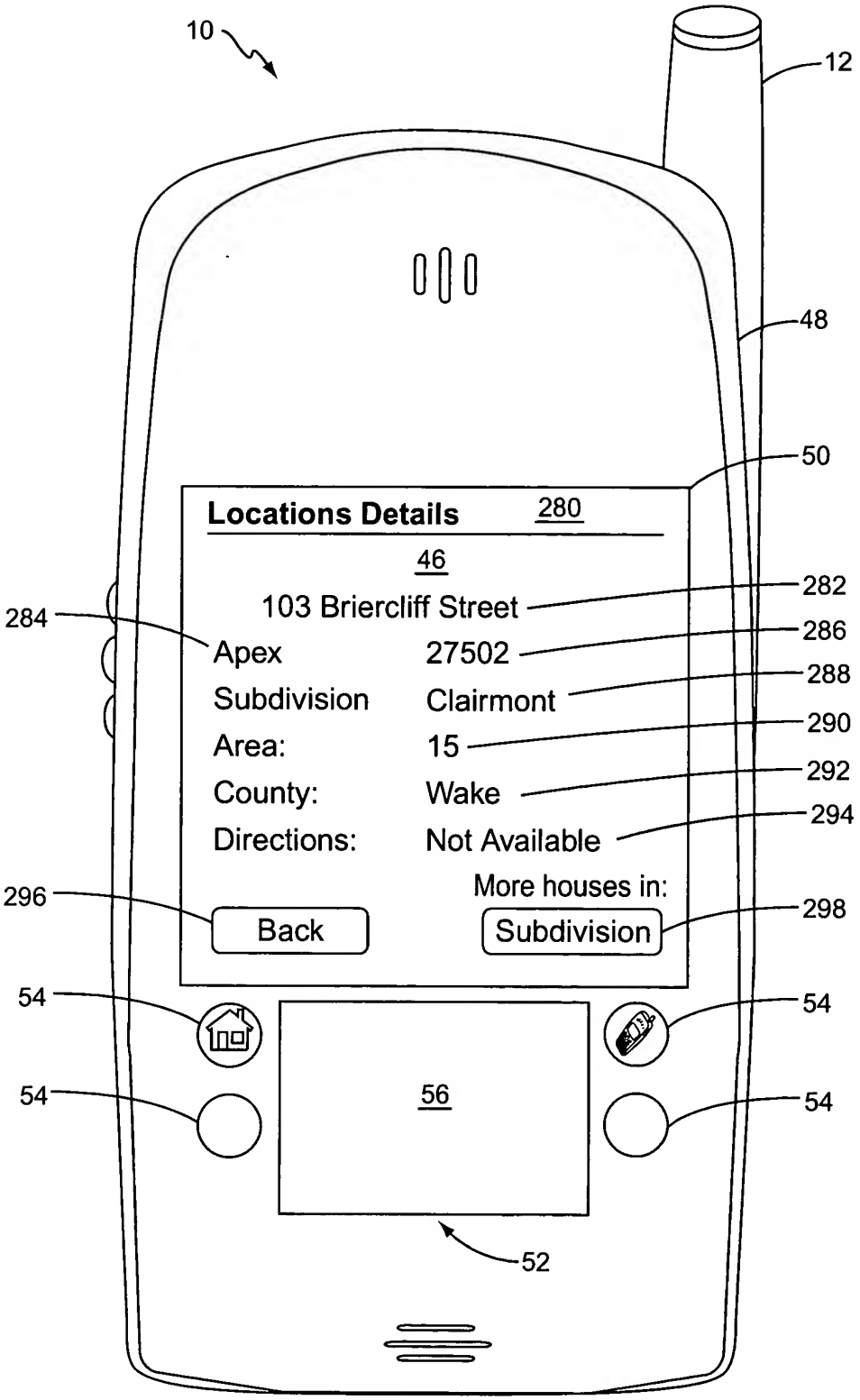
"More Detailed Information" State

FIG 9



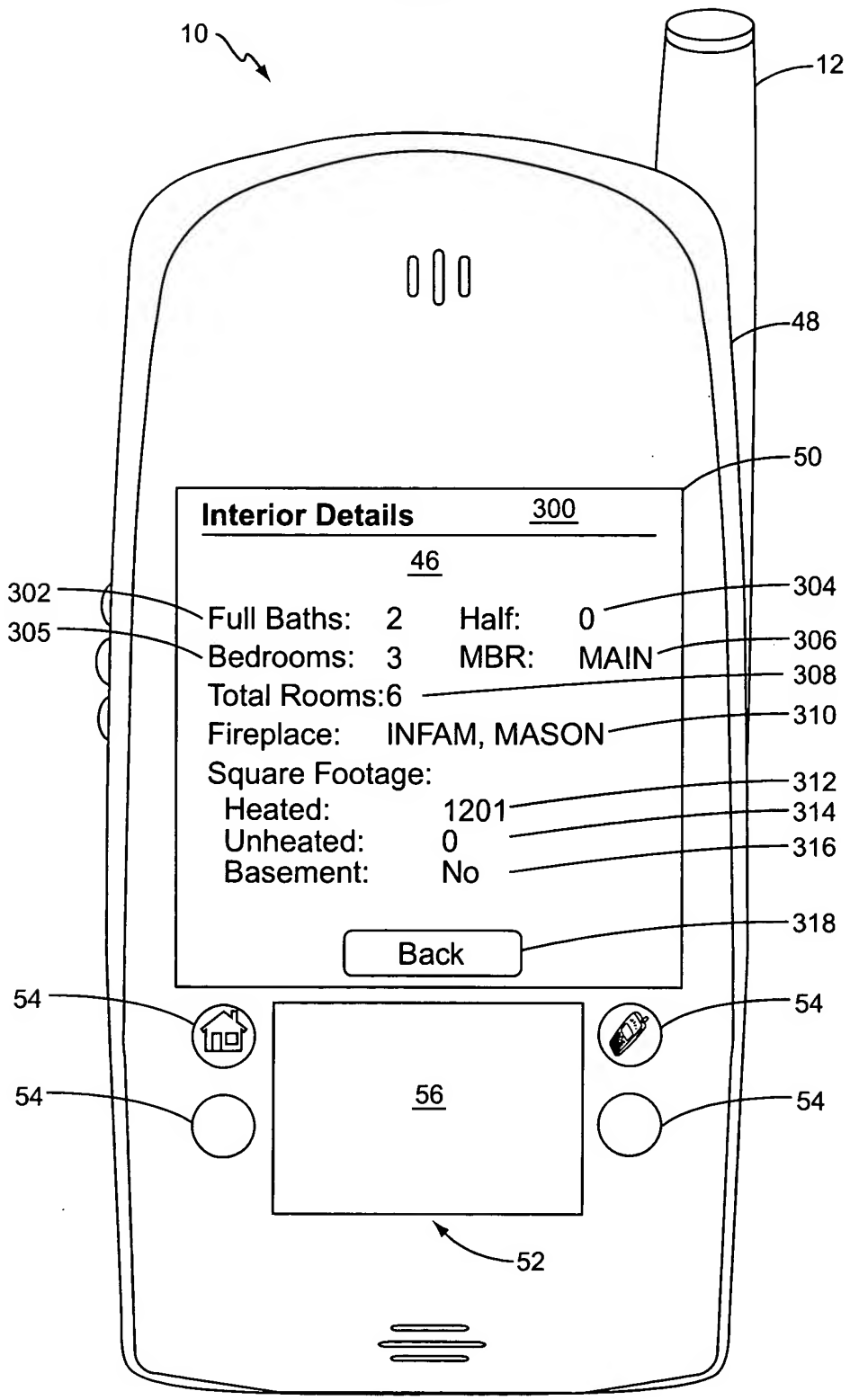
"More Detailed Information" State
"Listing Agent" Sub-state

FIG 10A



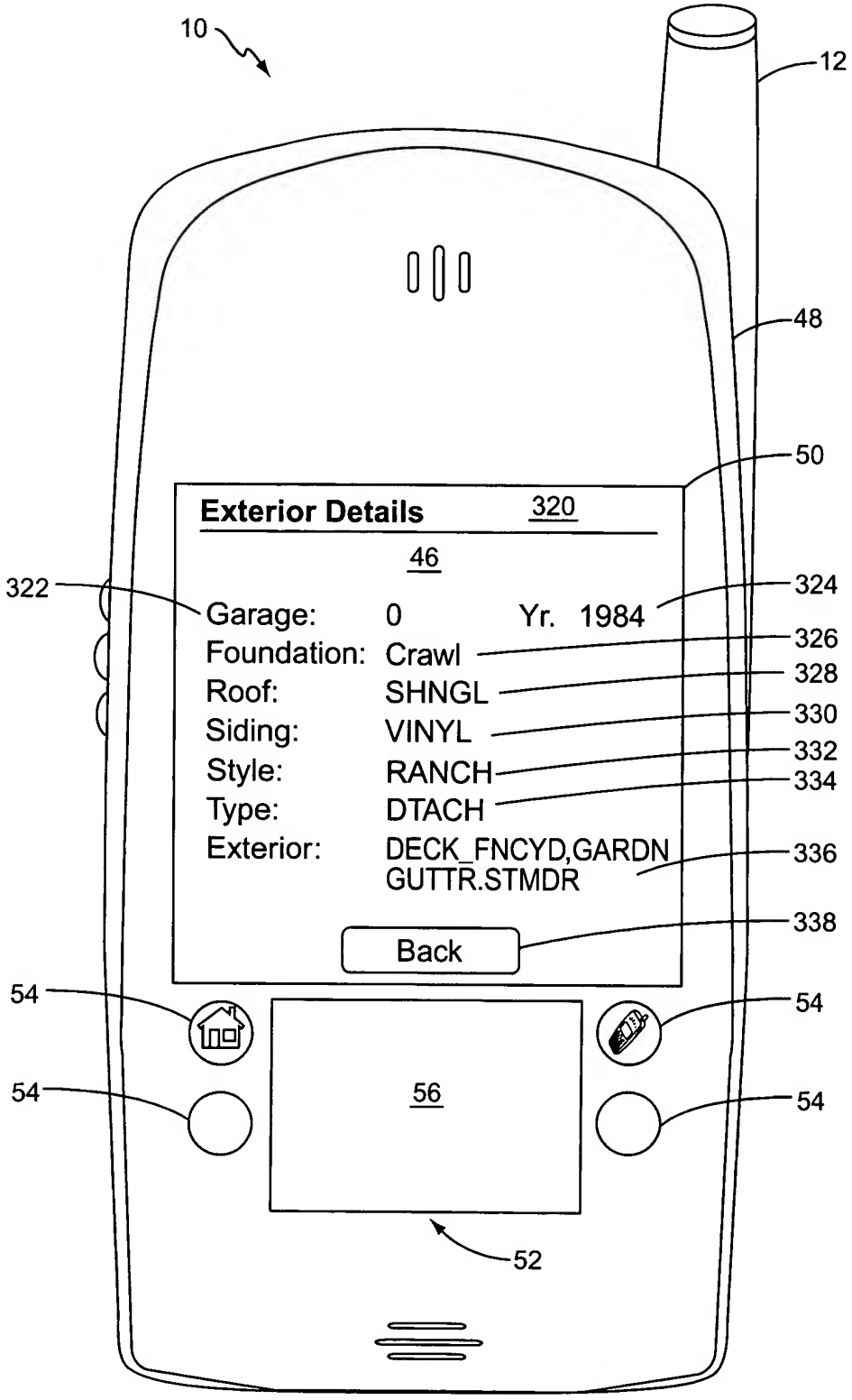
"More Detailed Information" State
"Location Details" Sub-state

FIG 10B



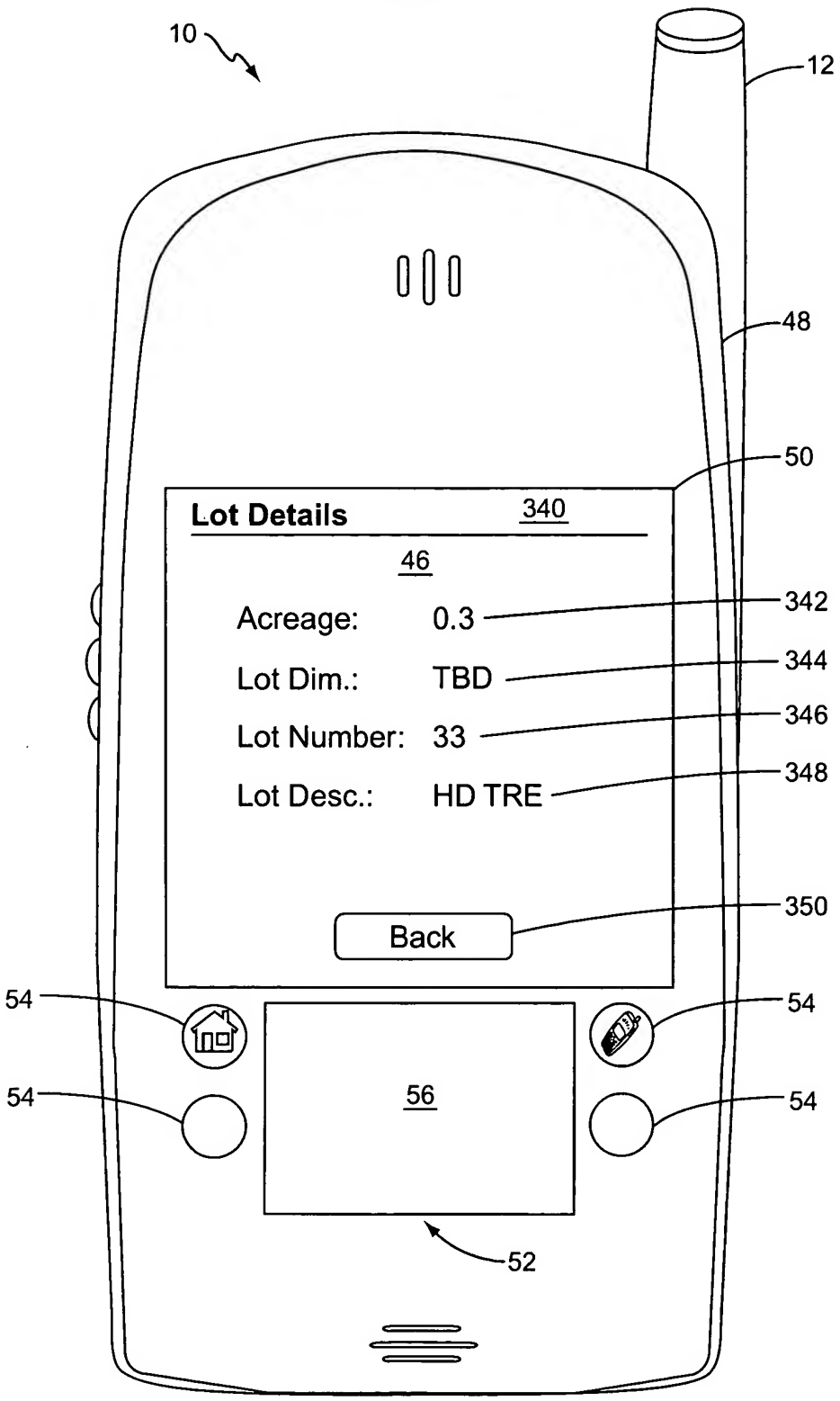
"More Detailed Information" State
"Interior Details" Sub-state

FIG 10C



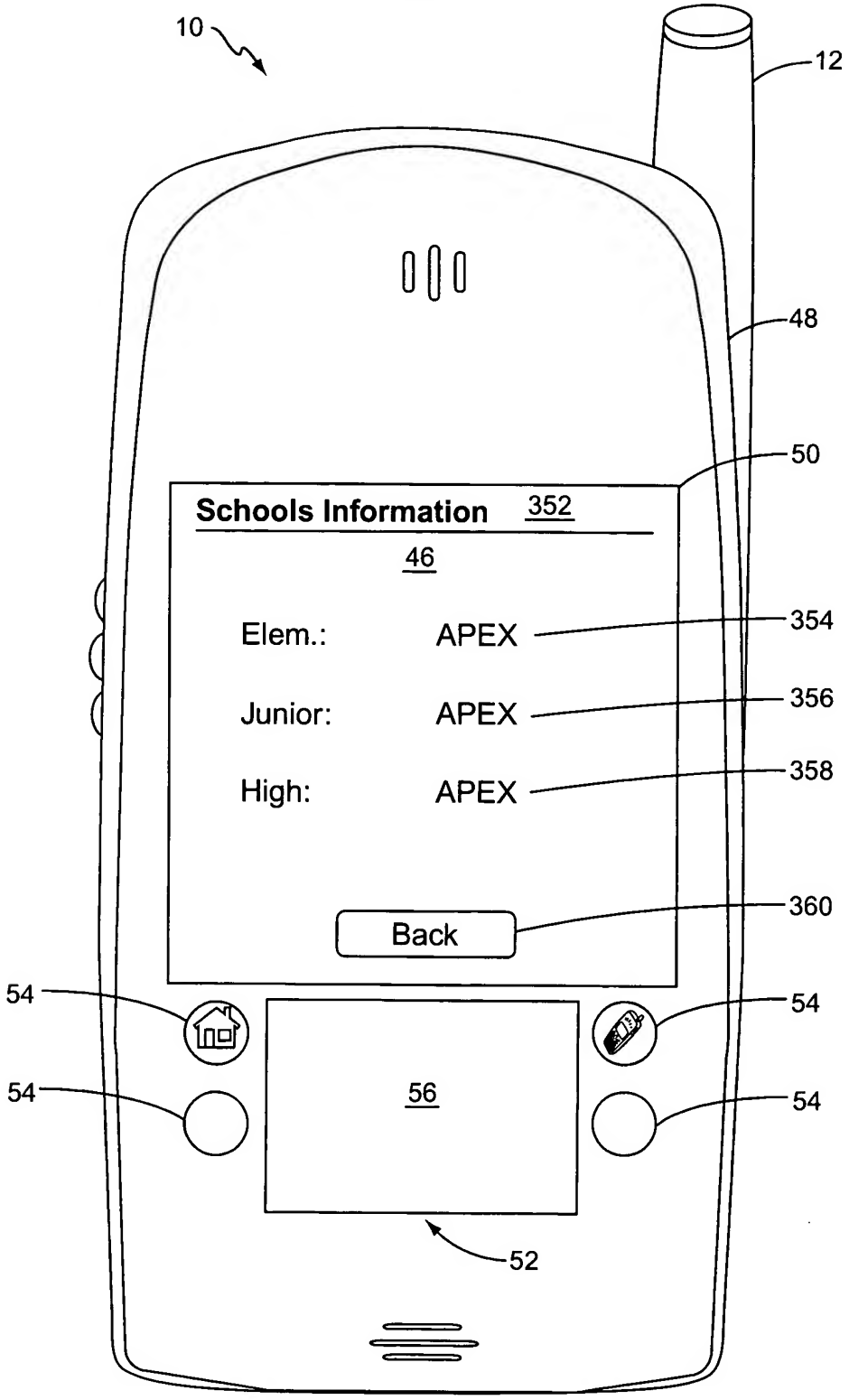
"More Detailed Information" State
"Exterior Details" Sub-state

FIG 10D



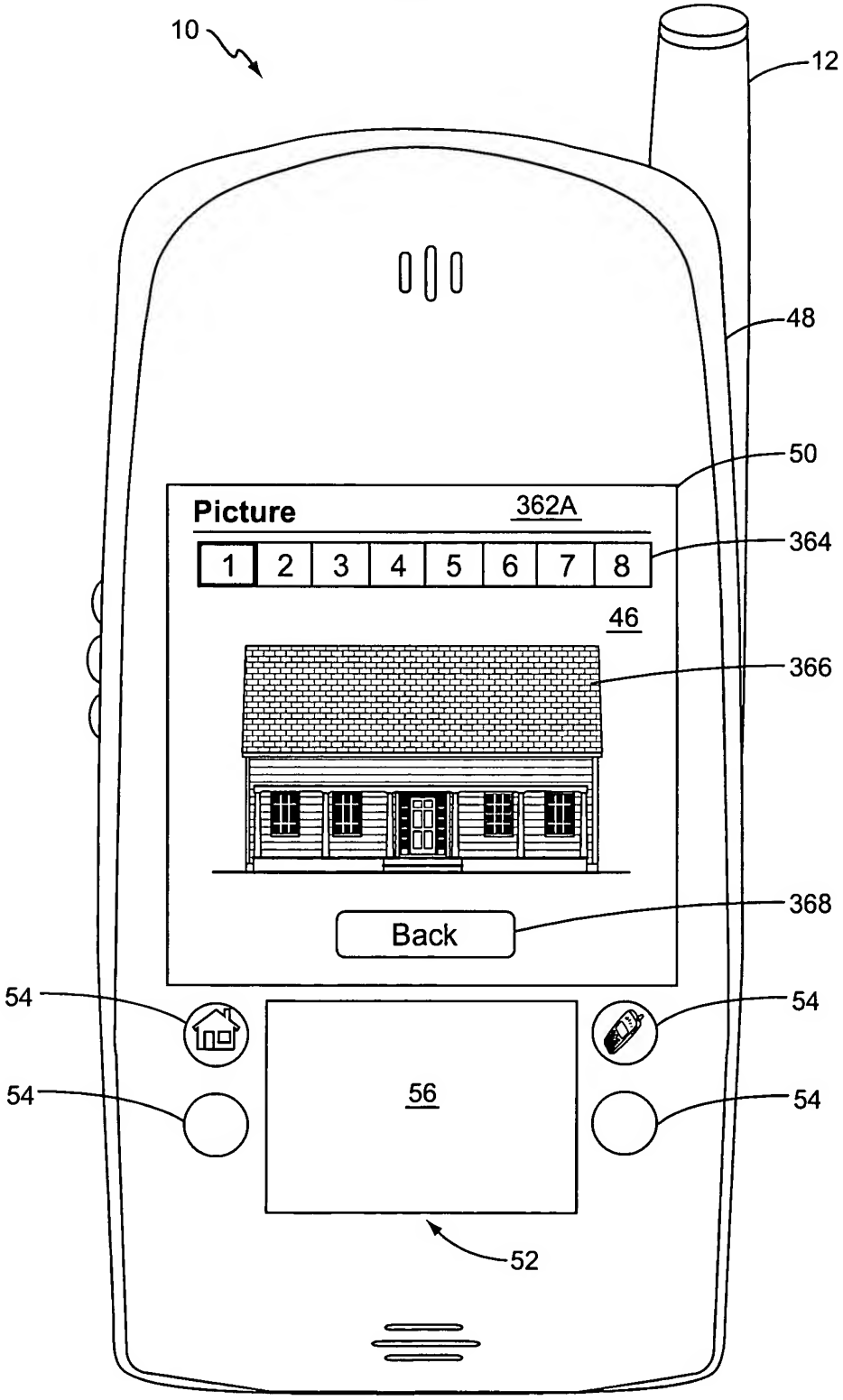
"More Detailed Information" State
"Lot Detail" Sub-state

FIG 10E



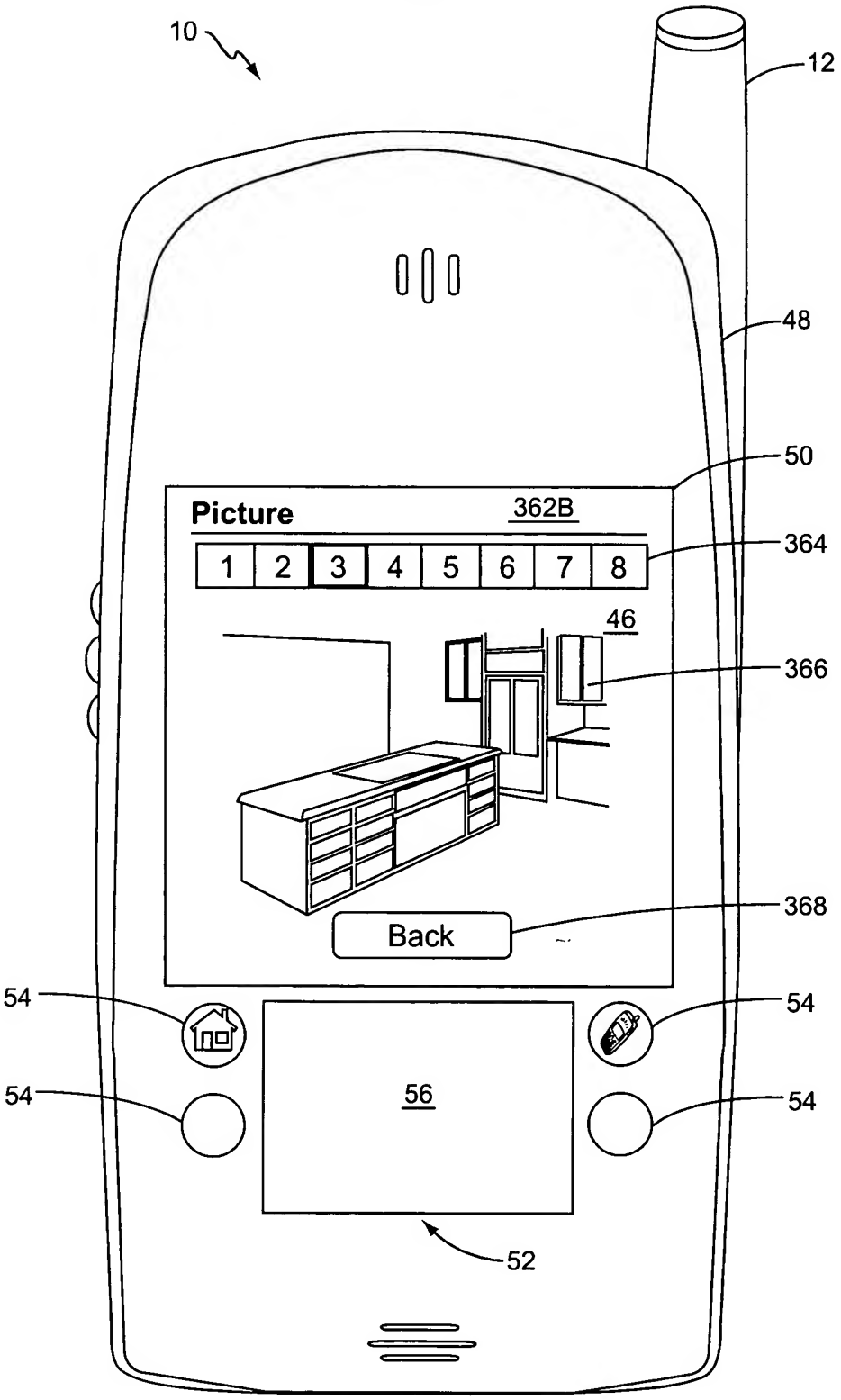
"More Detailed Information" State
"Schools" Sub-state

FIG 10F



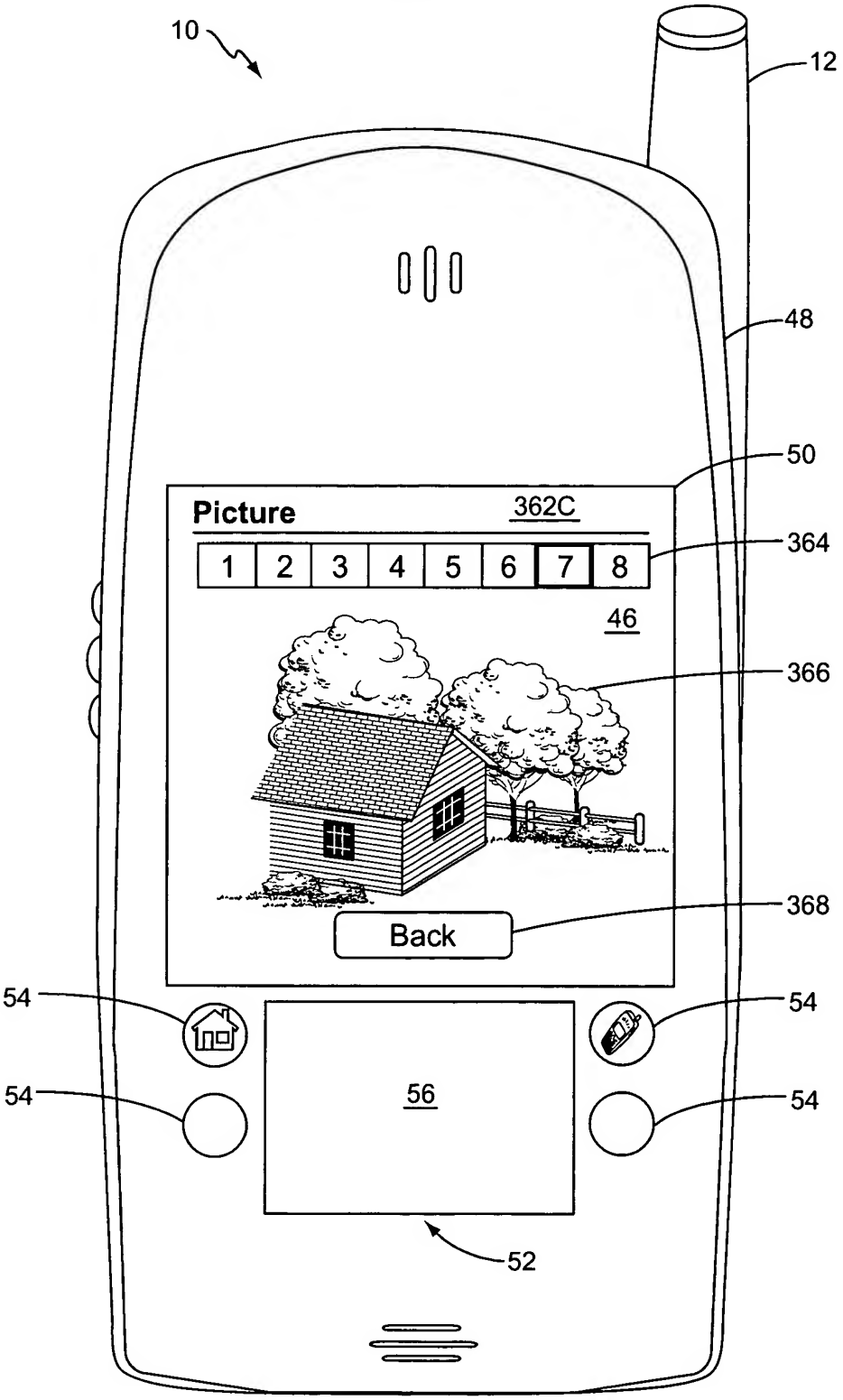
"More Detailed Information" State
"Pictures" Sub-state

FIG. 10G-1



"More Detailed Information" State
"Pictures" Sub-state

FIG. 10G-2



"More Detailed Information" State
"Pictures" Sub-state

FIG. 10G-3

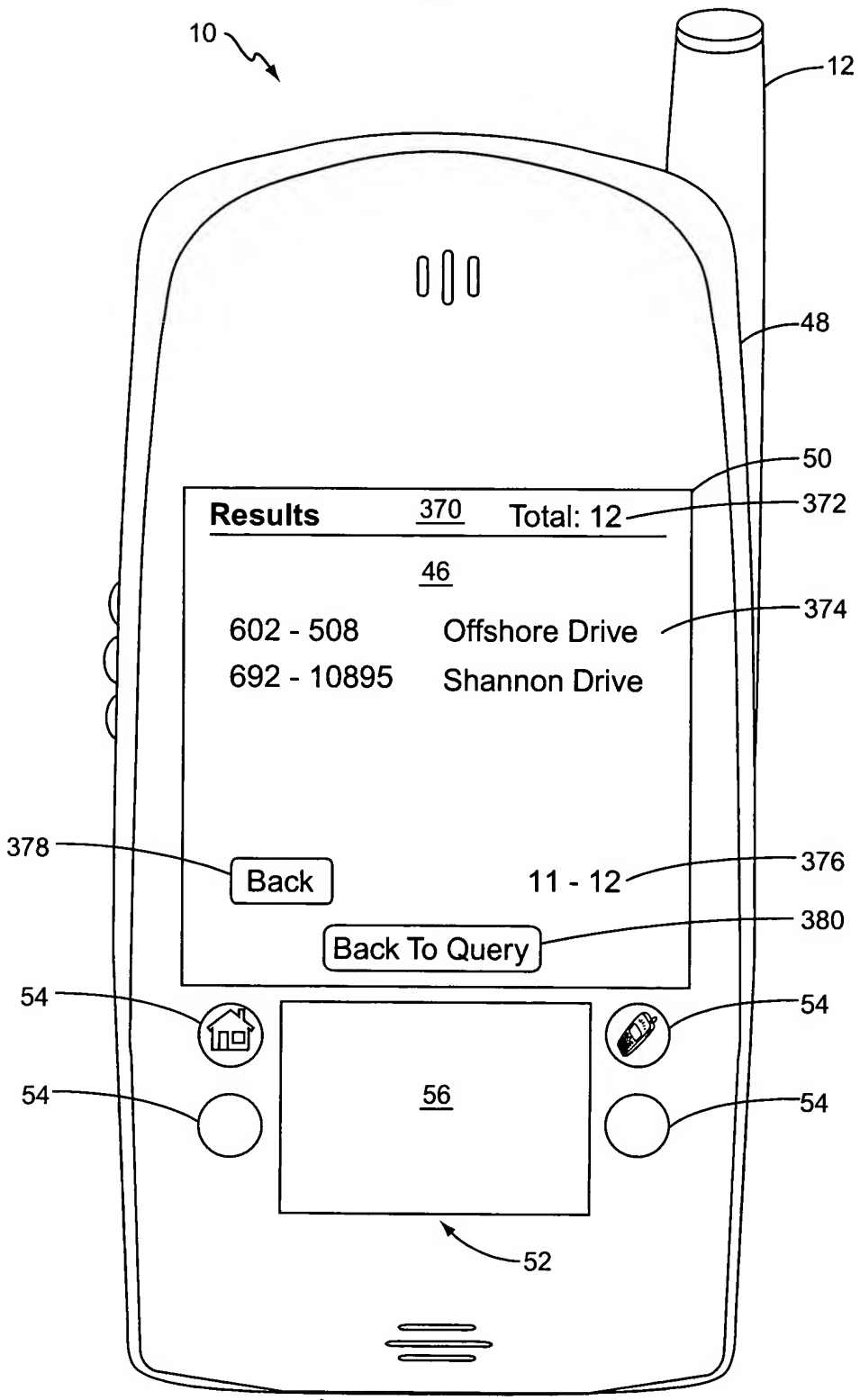

10
12
48
50
Results
370
Total: 12
372
46
602 - 508
Offshore Drive
692 - 10895
Shannon Drive
374
378
Back
11 - 12
376
380
Back To Query
54
54
54
54
56
52

FIG 11

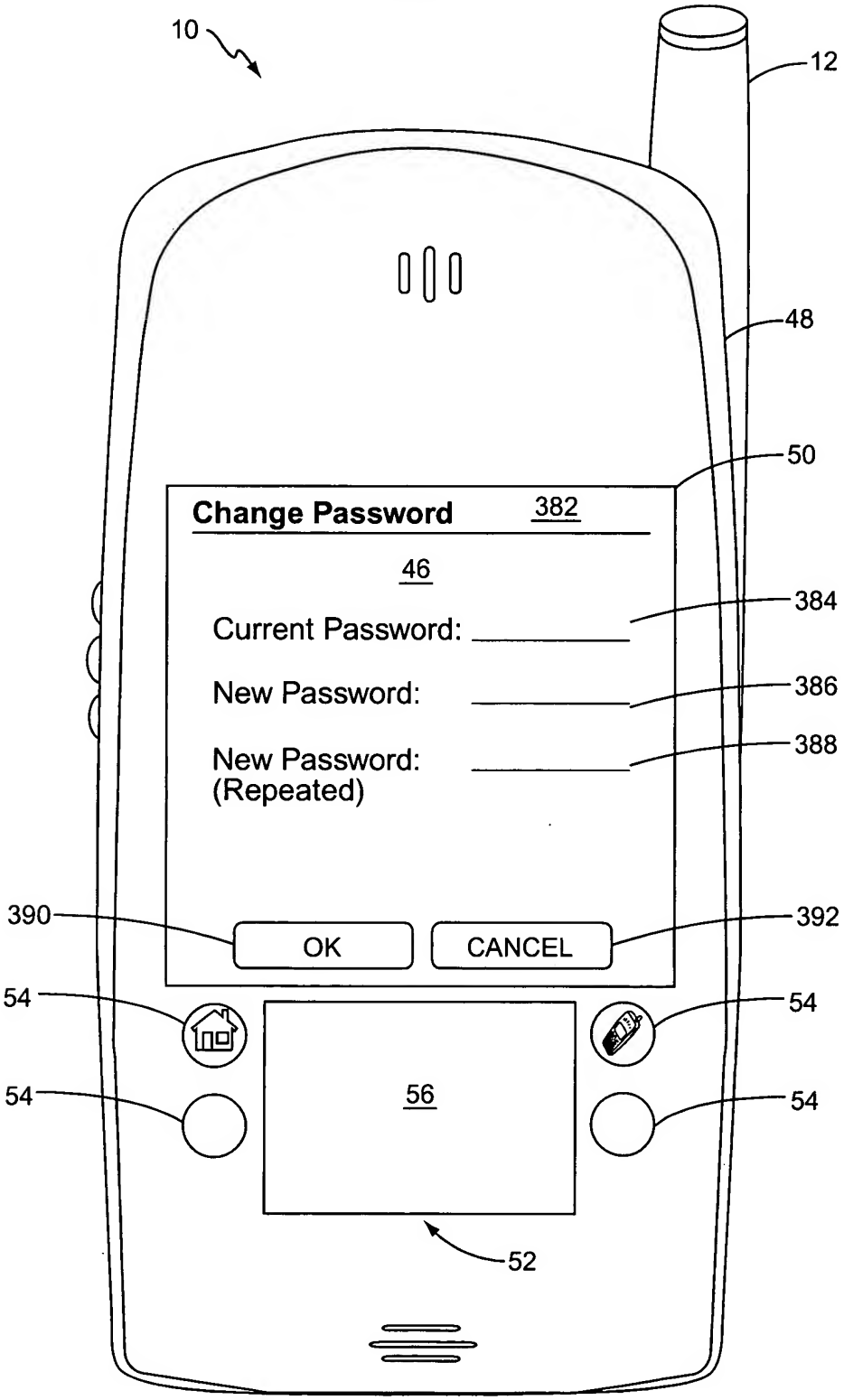

10
12
48
50
Change Password
382
46
Current Password:
384
New Password:
386
New Password:
(Repeated)
388
390
OK
CANCEL
392
54
54
54
54
56
52

FIG 12

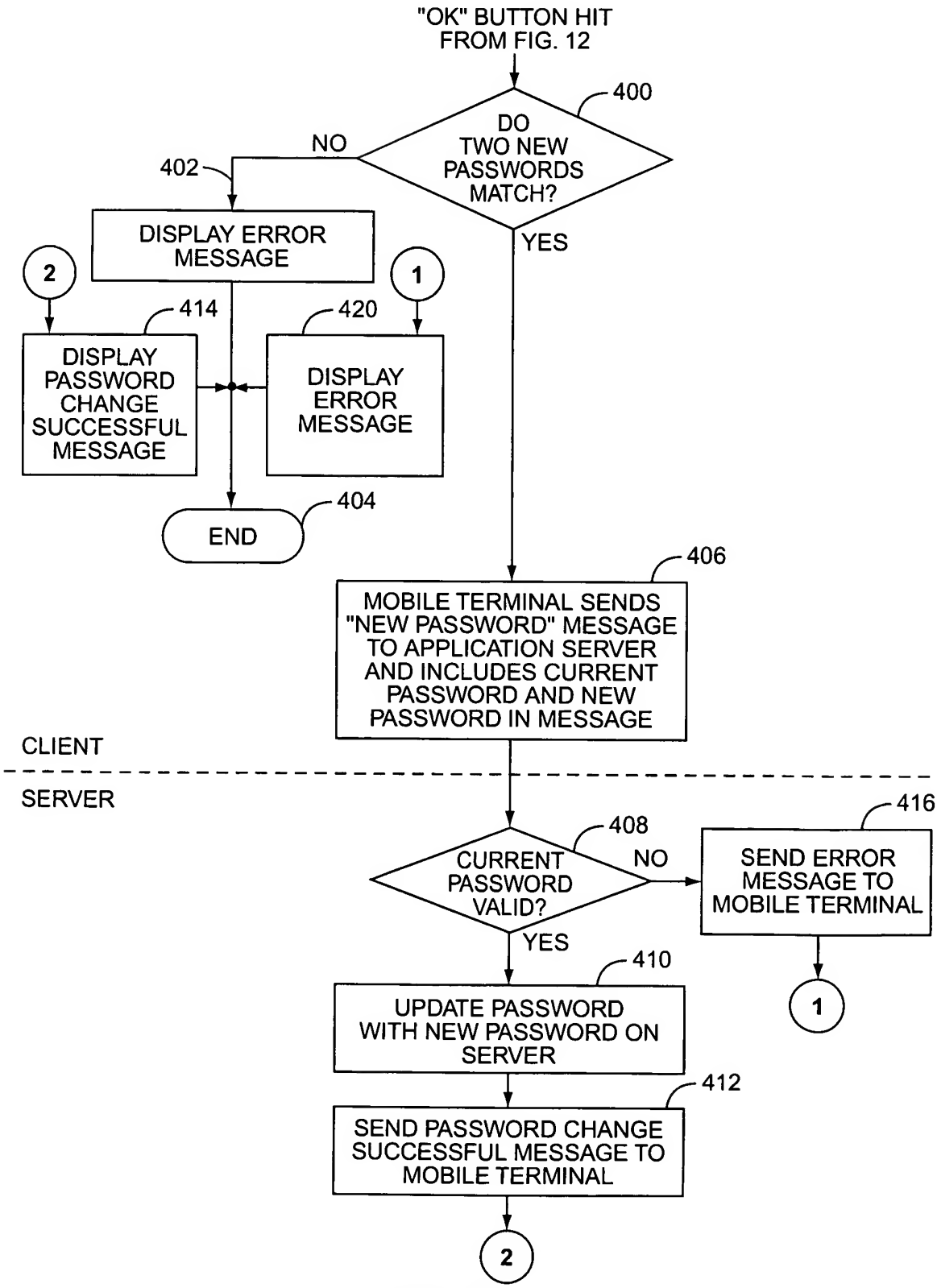

"OK" BUTTON HIT FROM FIG. 12
400
DO TWO NEW PASSWORDS MATCH?
NO
402
YES
DISPLAY ERROR MESSAGE
2
1
414
420
DISPLAY PASSWORD CHANGE SUCCESSFUL MESSAGE
DISPLAY ERROR MESSAGE
404
END
406
MOBILE TERMINAL SENDS "NEW PASSWORD" MESSAGE TO APPLICATION SERVER AND INCLUDES CURRENT PASSWORD AND NEW PASSWORD IN MESSAGE
CLIENT
SERVER
408
CURRENT PASSWORD VALID?
NO
416
SEND ERROR MESSAGE TO MOBILE TERMINAL
YES
410
1
UPDATE PASSWORD WITH NEW PASSWORD ON SERVER
412
SEND PASSWORD CHANGE SUCCESSFUL MESSAGE TO MOBILE TERMINAL
2

FIG. 13

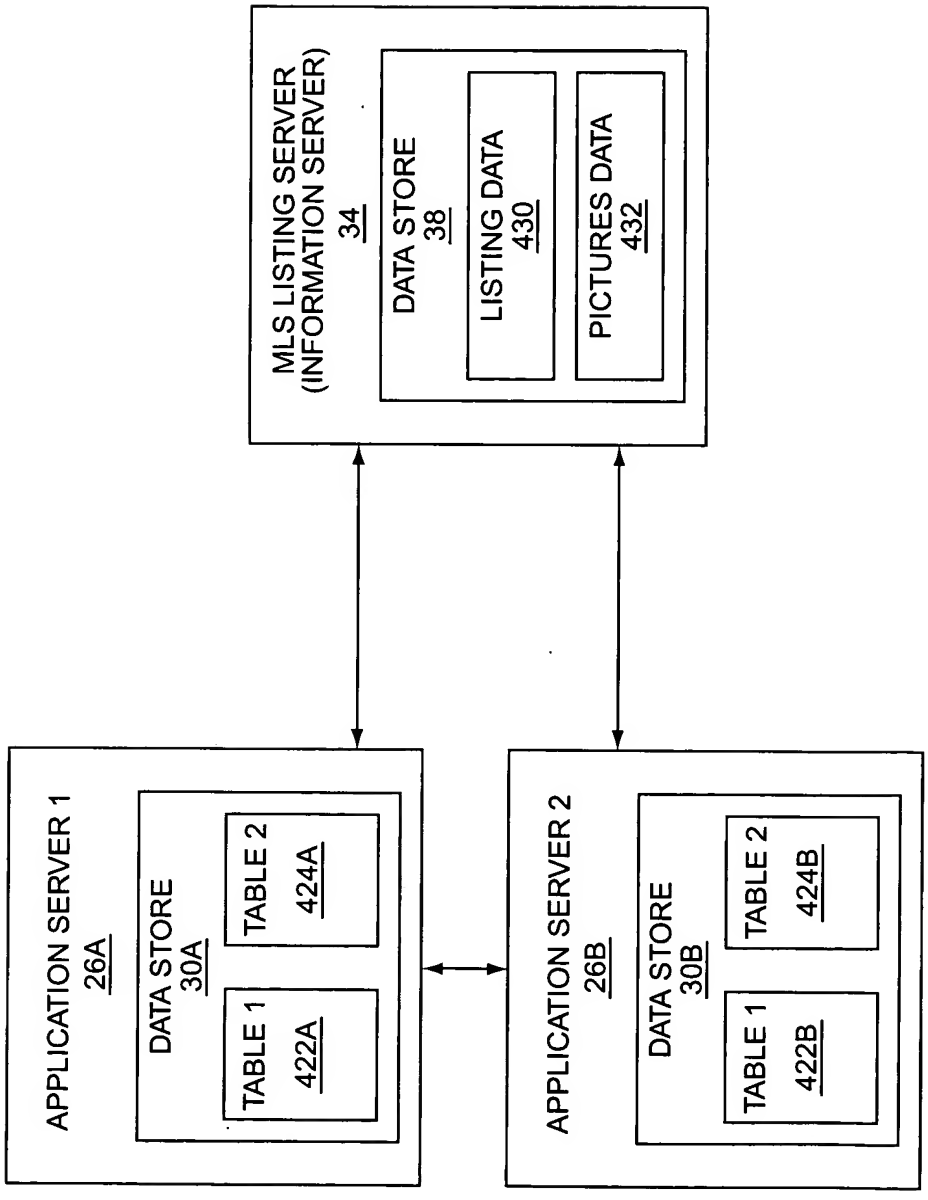

MLS LISTING SERVER
(INFORMATION SERVER)
34
DATA STORE
38
LISTING DATA
430
PICTURES DATA
432
APPLICATION SERVER 1
26A
DATA STORE
30A
TABLE 1
422A
TABLE 2
424A
APPLICATION SERVER 2
26B
DATA STORE
30B
TABLE 1
422B
TABLE 2
424B

FIG 14

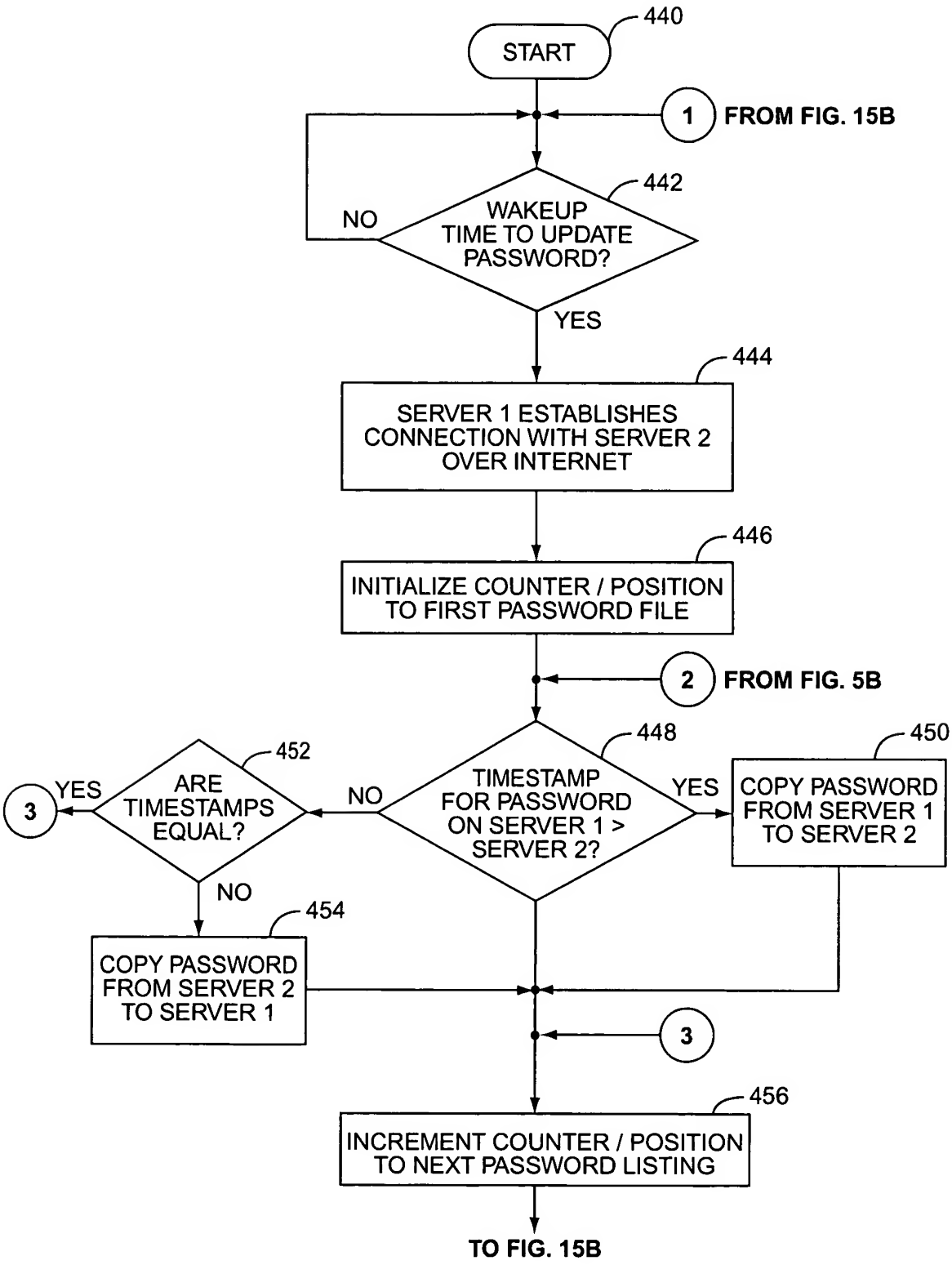

440
START
1
FROM FIG. 15B
442
WAKEUP TIME TO UPDATE PASSWORD?
NO
YES
444
SERVER 1 ESTABLISHES CONNECTION WITH SERVER 2 OVER INTERNET
446
INITIALIZE COUNTER / POSITION TO FIRST PASSWORD FILE
2
FROM FIG. 5B
448
TIMESTAMP FOR PASSWORD ON SERVER 1 > SERVER 2?
YES
450
COPY PASSWORD FROM SERVER 1 TO SERVER 2
NO
452
ARE TIMESTAMPS EQUAL?
YES
3
NO
454
COPY PASSWORD FROM SERVER 2 TO SERVER 1
3
456
INCREMENT COUNTER / POSITION TO NEXT PASSWORD LISTING
TO FIG. 15B

FIG. 15A

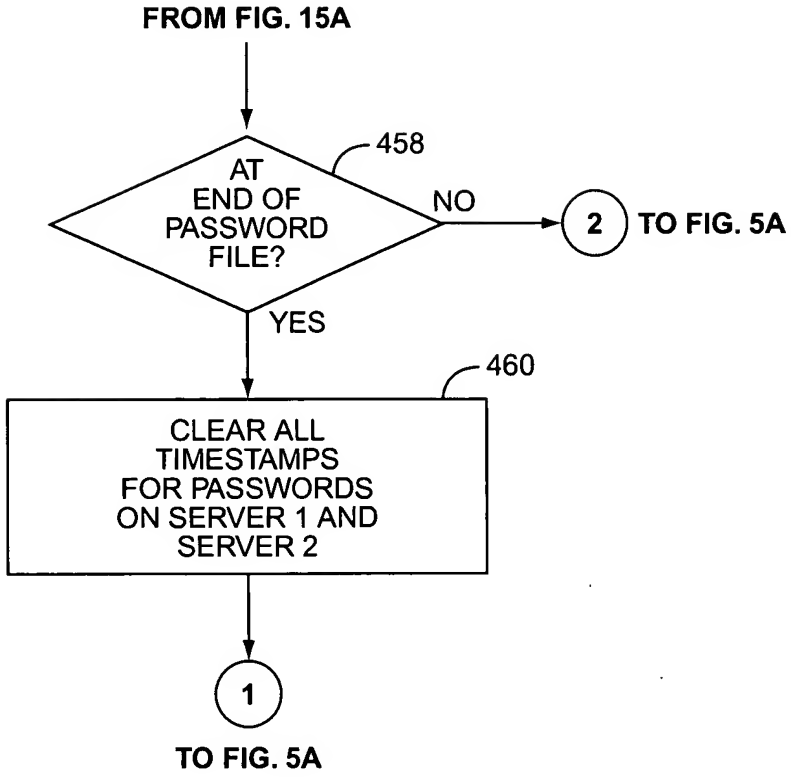

FROM FIG. 15A
458
AT END OF PASSWORD FILE?
NO
2
TO FIG. 5A
YES
460
CLEAR ALL TIMESTAMPS FOR PASSWORDS ON SERVER 1 AND SERVER 2
1
TO FIG. 5A

FIG. 15B

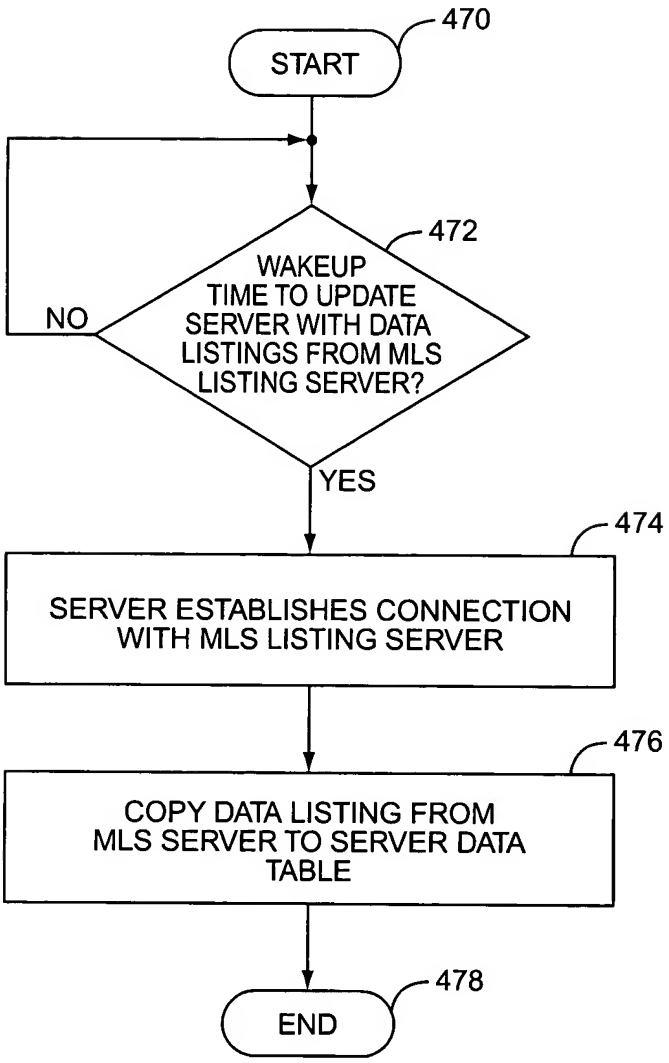

470
START
472
WAKEUP TIME TO UPDATE SERVER WITH DATA LISTINGS FROM MLS LISTING SERVER?
NO
YES
474
SERVER ESTABLISHES CONNECTION WITH MLS LISTING SERVER
476
COPY DATA LISTING FROM MLS SERVER TO SERVER DATA TABLE
478
END

FIG. 16

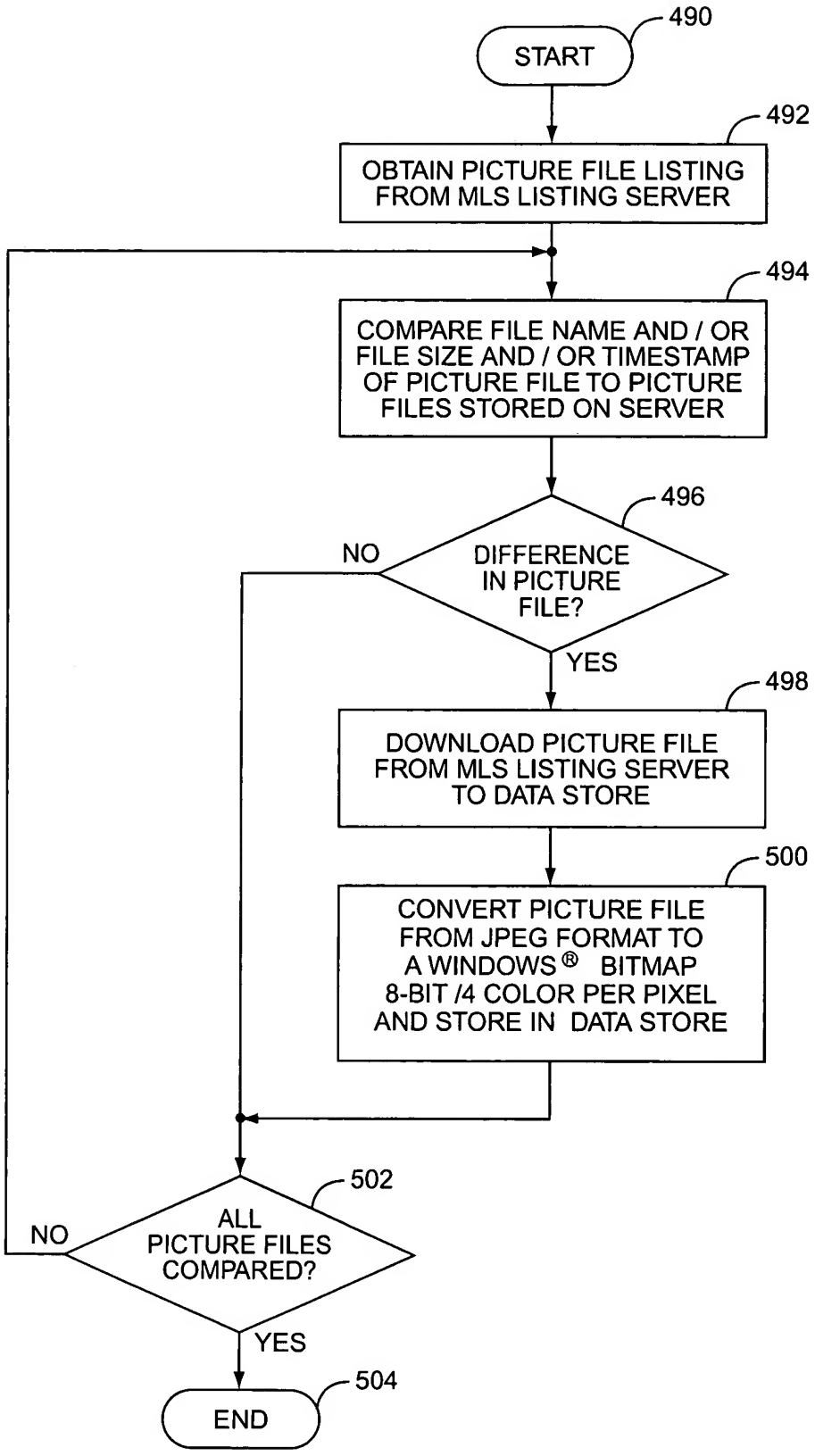

490
START
492
OBTAIN PICTURE FILE LISTING FROM MLS LISTING SERVER
494
COMPARE FILE NAME AND / OR FILE SIZE AND / OR TIMESTAMP OF PICTURE FILE TO PICTURE FILES STORED ON SERVER
496
DIFFERENCE IN PICTURE FILE?
NO
YES
498
DOWNLOAD PICTURE FILE FROM MLS LISTING SERVER TO DATA STORE
500
CONVERT PICTURE FILE FROM JPEG FORMAT TO A WINDOWS® BITMAP 8-BIT /4 COLOR PER PIXEL AND STORE IN DATA STORE
502
ALL PICTURE FILES COMPARED?
NO
YES
504
END

FIG. 17

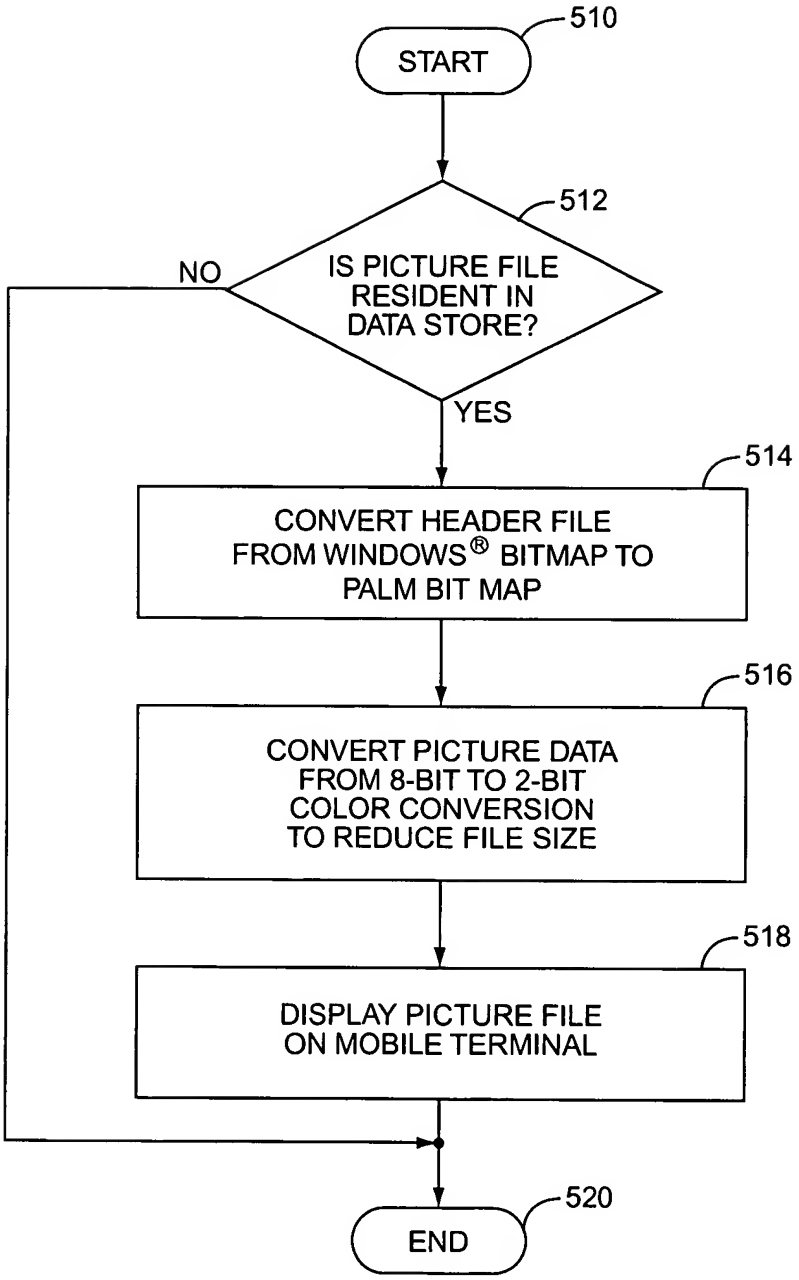

510
START
512
IS PICTURE FILE RESIDENT IN DATA STORE?
NO
YES
514
CONVERT HEADER FILE FROM WINDOWS® BITMAP TO PALM BIT MAP
516
CONVERT PICTURE DATA FROM 8-BIT TO 2-BIT COLOR CONVERSION TO REDUCE FILE SIZE
518
DISPLAY PICTURE FILE ON MOBILE TERMINAL
520
END

FIG. 18